FIG. 1

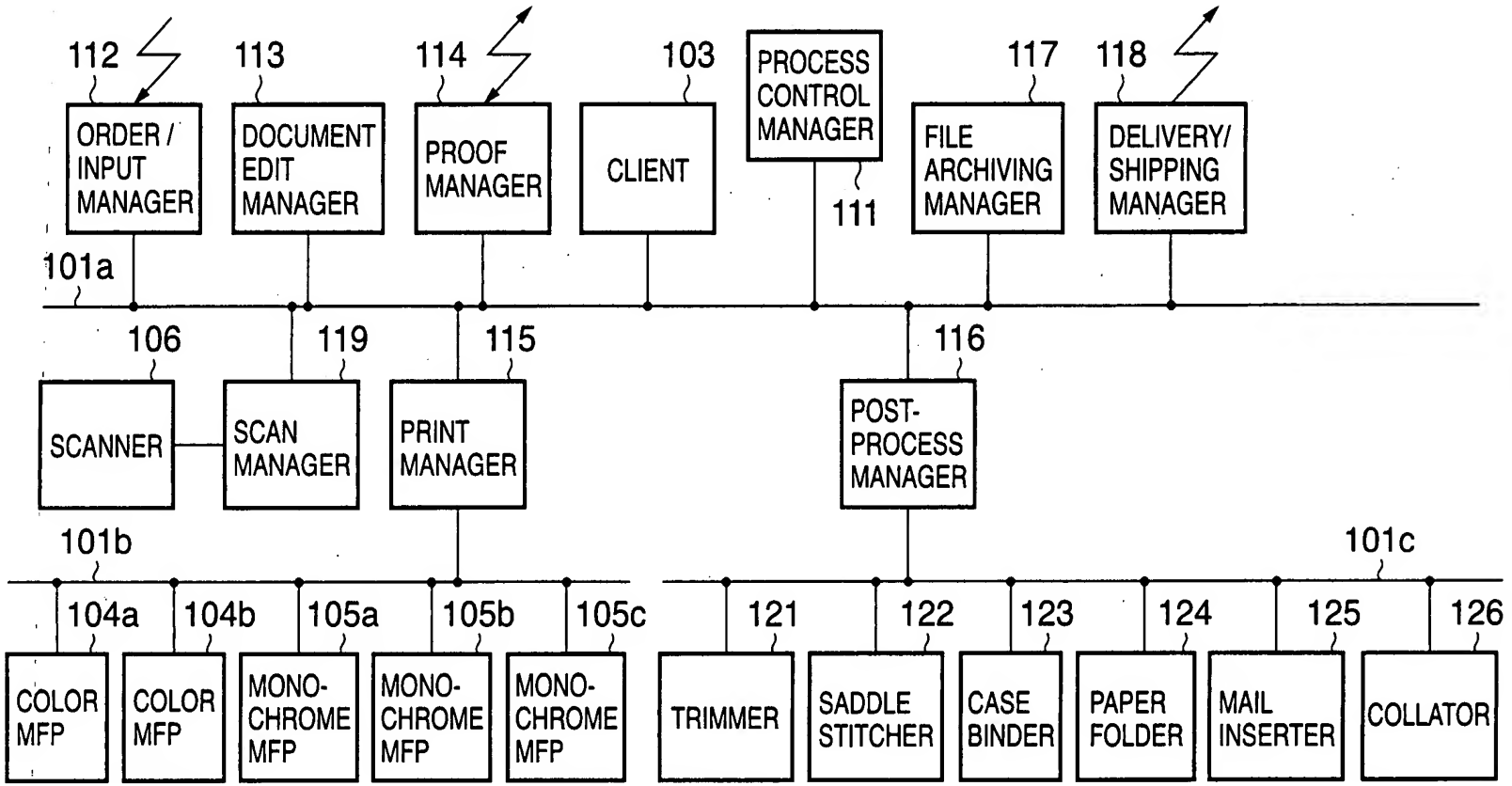

112
ORDER / INPUT MANAGER
113
DOCUMENT EDIT MANAGER
114
PROOF MANAGER
103
CLIENT
PROCESS CONTROL MANAGER
111
117
FILE ARCHIVING MANAGER
118
DELIVERY/ SHIPPING MANAGER
101a
106
SCANNER
119
SCAN MANAGER
115
PRINT MANAGER
116
POST-PROCESS MANAGER
101b
101c
104a
COLOR MFP
104b
COLOR MFP
105a
MONO-CHROME MFP
105b
MONO-CHROME MFP
105c
MONO-CHROME MFP
121
TRIMMER
122
SADDLE STITCHER
123
CASE BINDER
124
PAPER FOLDER
125
MAIL INSERTER
126
COLLATOR

FIG. 2

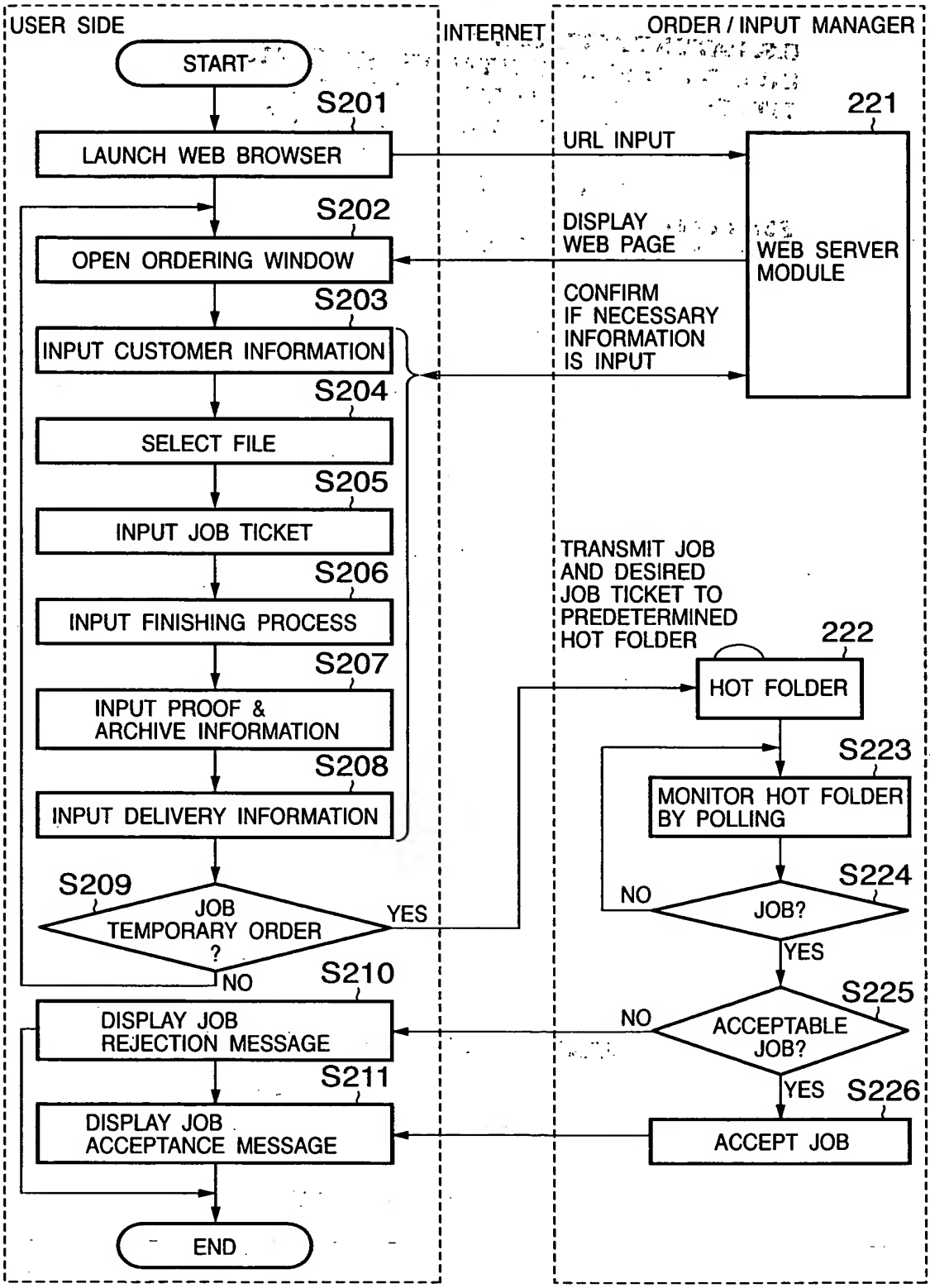

USER SIDE
INTERNET
ORDER / INPUT MANAGER
START
S201
LAUNCH WEB BROWSER
URL INPUT
221
WEB SERVER MODULE
S202
OPEN ORDERING WINDOW
DISPLAY WEB PAGE
S203
INPUT CUSTOMER INFORMATION
CONFIRM IF NECESSARY INFORMATION IS INPUT
S204
SELECT FILE
S205
INPUT JOB TICKET
S206
INPUT FINISHING PROCESS
S207
INPUT PROOF & ARCHIVE INFORMATION
S208
INPUT DELIVERY INFORMATION
TRANSMIT JOB AND DESIRED JOB TICKET TO PREDETERMINED HOT FOLDER
222
HOT FOLDER
S223
MONITOR HOT FOLDER BY POLLING
S209
JOB TEMPORARY ORDER ?
YES
NO
S224
JOB?
NO
YES
S225
ACCEPTABLE JOB?
NO
YES
S210
DISPLAY JOB REJECTION MESSAGE
S211
DISPLAY JOB ACCEPTANCE MESSAGE
S226
ACCEPT JOB
END

FIG. 3

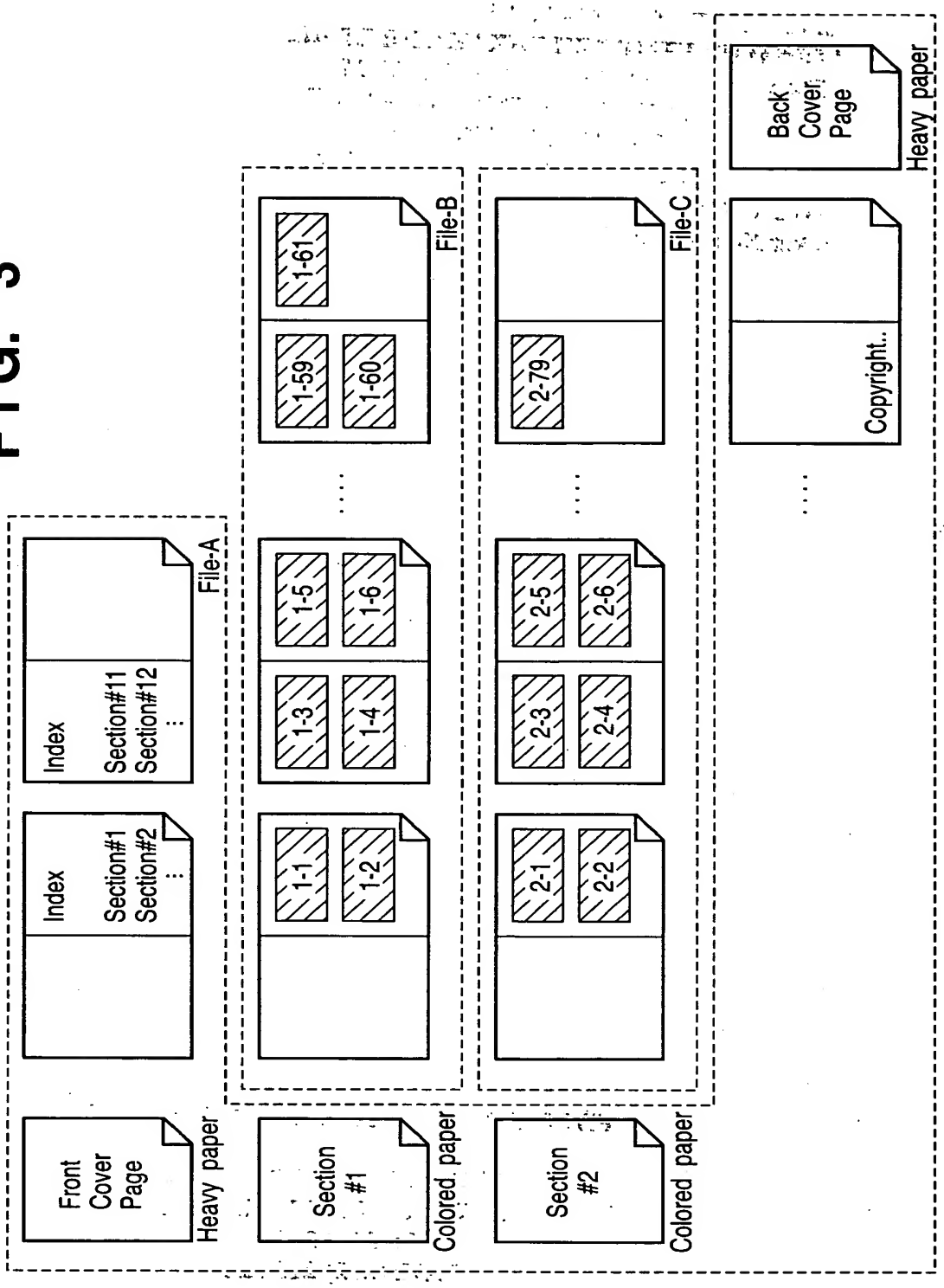

Front Cover Page
Heavy paper
Index
Section#1
Section#2
Index
Section#11
Section#12
File-A
Section #1
Colored paper
1-1
1-2
1-3
1-4
1-5
1-6
1-59
1-60
1-61
File-B
Section #2
Colored paper
2-1
2-2
2-3
2-4
2-5
2-6
2-79
File-C
Copyright..
Back Cover Page
Heavy paper

FIG. 4

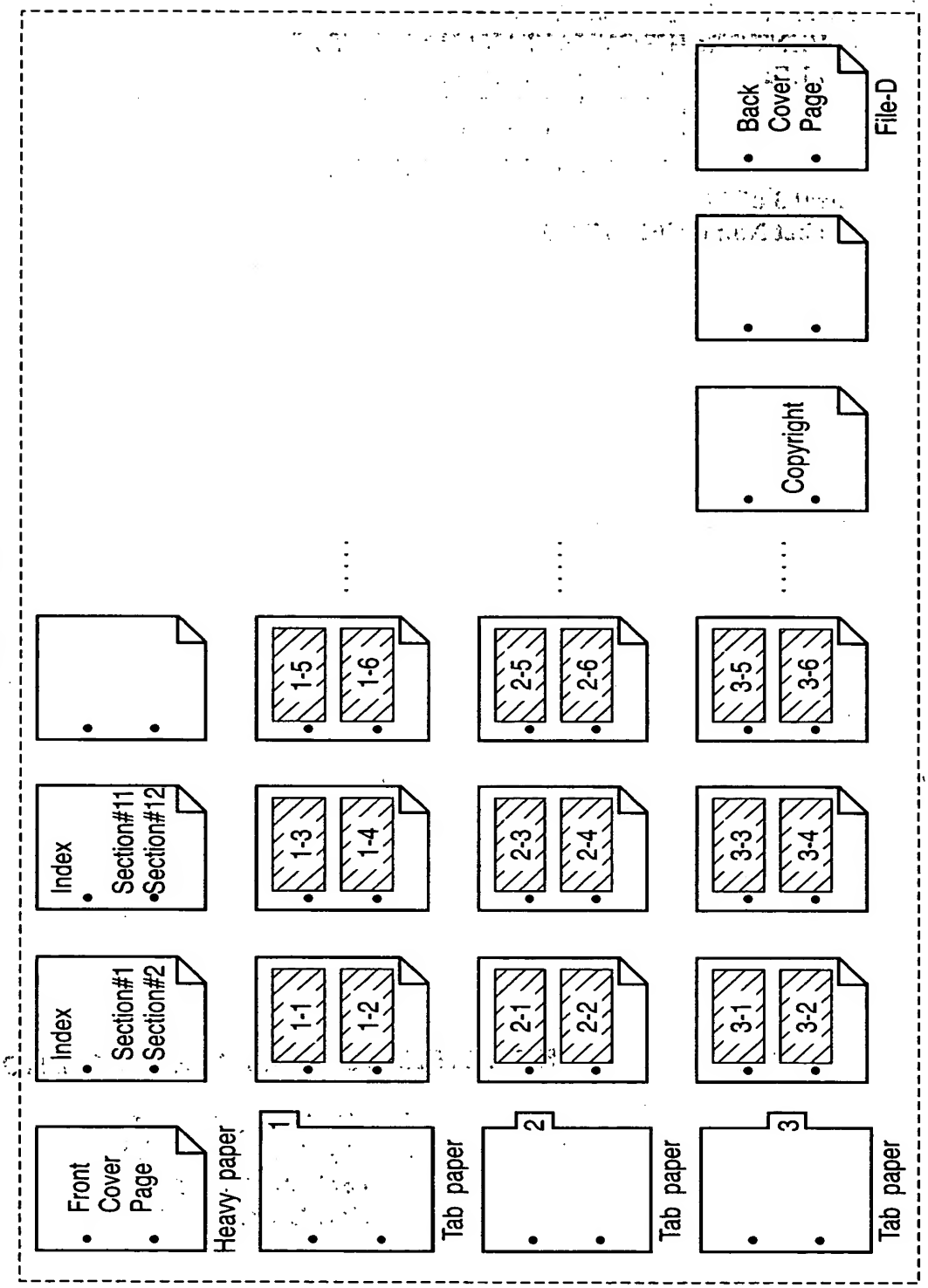

Front Cover Page
Heavy paper
Index
Section#1
Section#2
Index
Section#11
Section#12
1
Tab paper
1-1
1-2
1-3
1-4
1-5
1-6
2
Tab paper
2-1
2-2
2-3
2-4
2-5
2-6
3
Tab paper
3-1
3-2
3-3
3-4
3-5
3-6
Copyright
Back Cover Page
File-D

FIG. 5

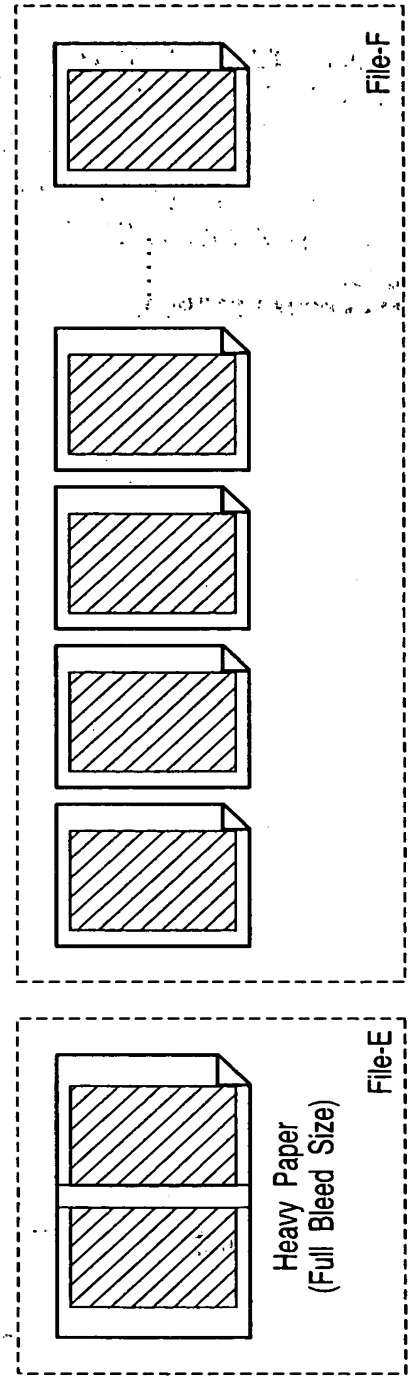


FIG. 6

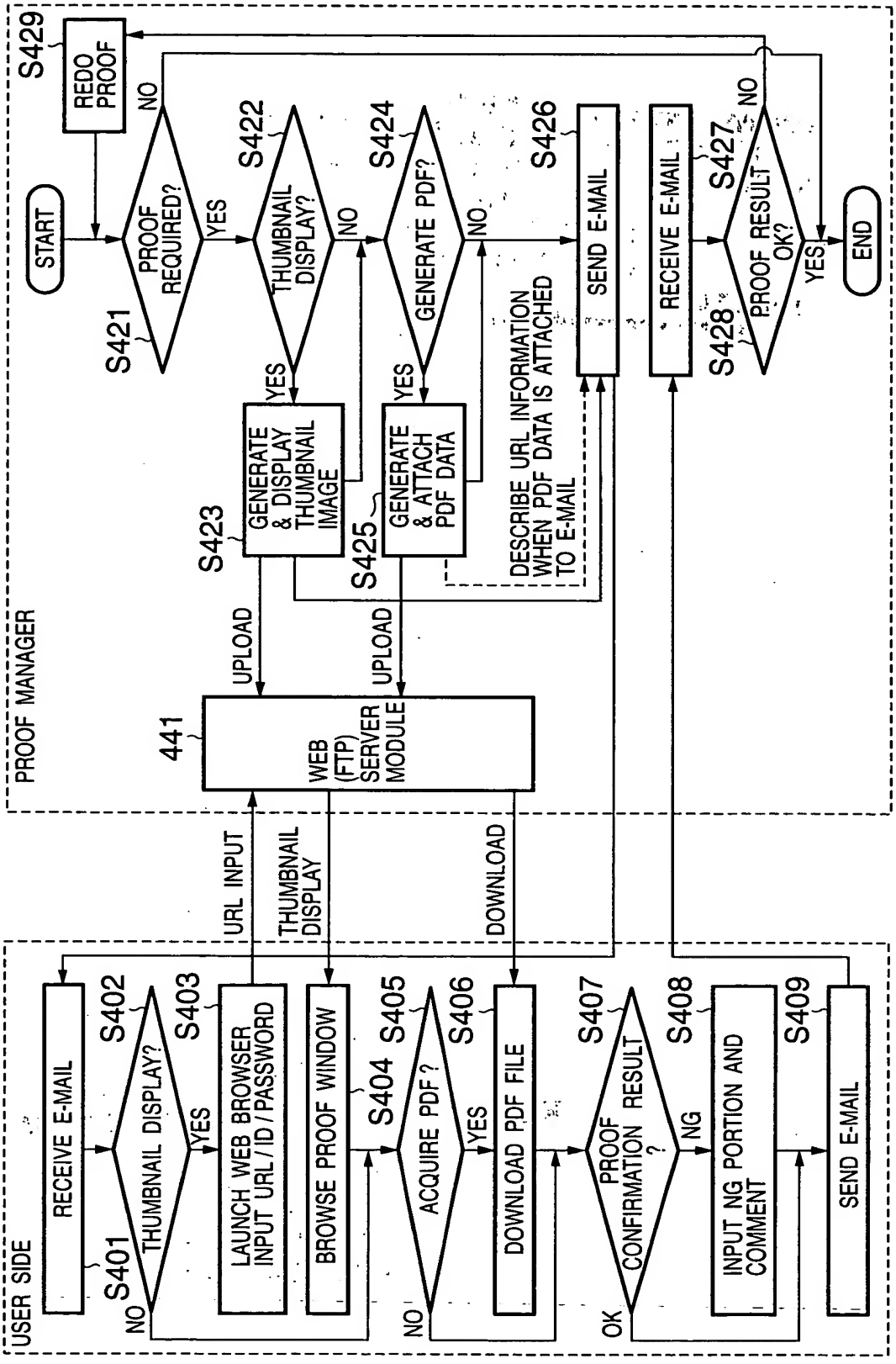

PROOF MANAGER
USER SIDE
START
S421
PROOF REQUIRED?
YES
NO
S422
THUMBNAIL DISPLAY?
YES
NO
S423
GENERATE & DISPLAY THUMBNAIL IMAGE
S424
GENERATE PDF?
YES
NO
S425
GENERATE & ATTACH PDF DATA
S426
SEND E-MAIL
S427
RECEIVE E-MAIL
S428
PROOF RESULT OK?
NO
YES
S429
REDO PROOF
END
DESCRIBE URL INFORMATION WHEN PDF DATA IS ATTACHED TO E-MAIL
UPLOAD
UPLOAD
441
WEB (FTP) SERVER MODULE
URL INPUT
THUMBNAIL DISPLAY
DOWNLOAD
S401
RECEIVE E-MAIL
S402
THUMBNAIL DISPLAY?
NO
YES
S403
LAUNCH WEB BROWSER INPUT URL / ID / PASSWORD
S404
BROWSE PROOF WINDOW
S405
ACQUIRE PDF?
NO
YES
S406
DOWNLOAD PDF FILE
S407
PROOF CONFIRMATION RESULT ?
OK
NG
S408
INPUT NG PORTION AND COMMENT
S409
SEND E-MAIL

FIG. 7

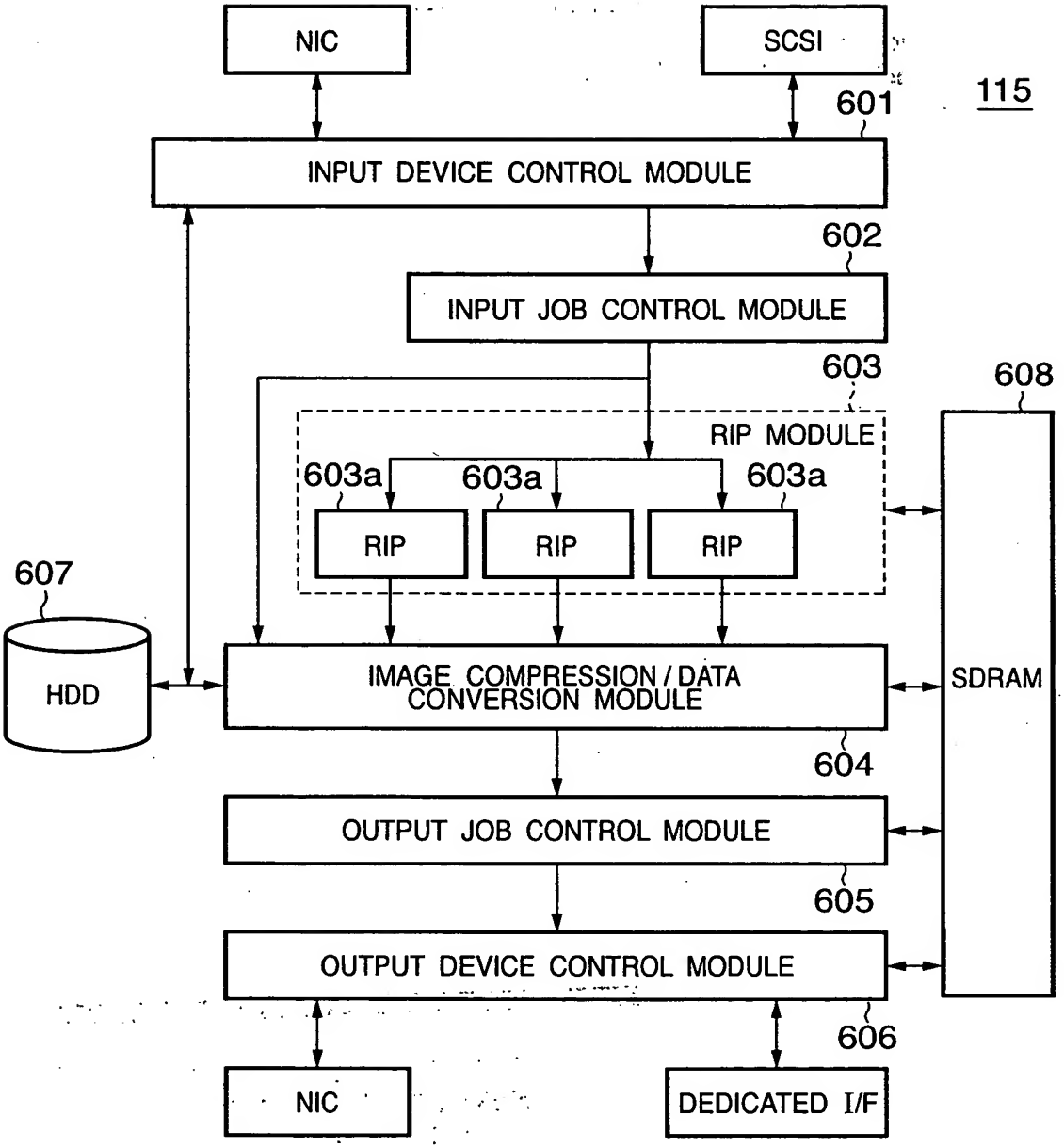

NIC
SCSI
115
601
INPUT DEVICE CONTROL MODULE
602
INPUT JOB CONTROL MODULE
603
608
RIP MODULE
603a
603a
603a
RIP
RIP
RIP
607
HDD
IMAGE COMPRESSION / DATA CONVERSION MODULE
SDRAM
604
OUTPUT JOB CONTROL MODULE
605
OUTPUT DEVICE CONTROL MODULE
606
NIC
DEDICATED I/F

FIG. 8

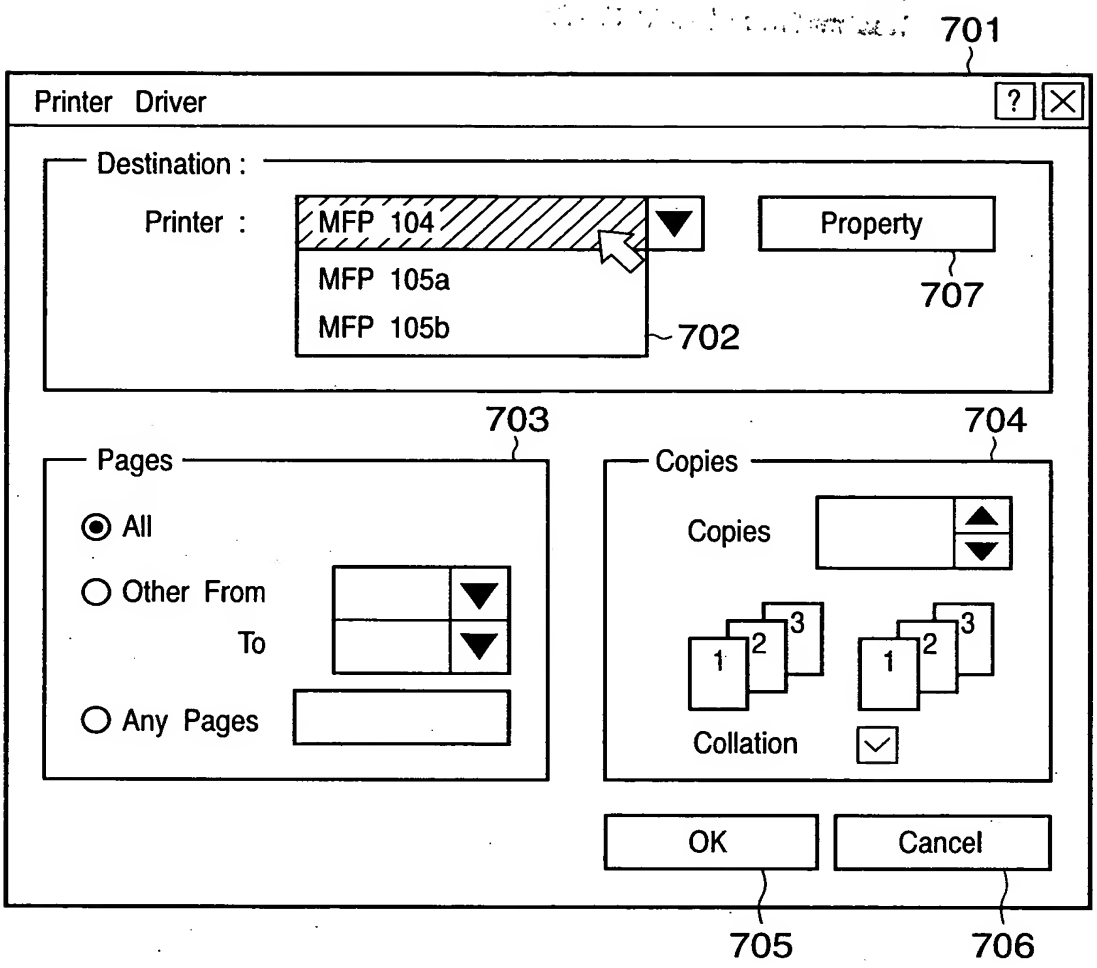

701
Printer Driver
?
Destination :
Printer :
MFP 104
MFP 105a
MFP 105b
702
Property
707
703
Pages
All
Other From
To
Any Pages
704
Copies
Copies
1
2
3
Collation
OK
Cancel
705
706

FIG. 9

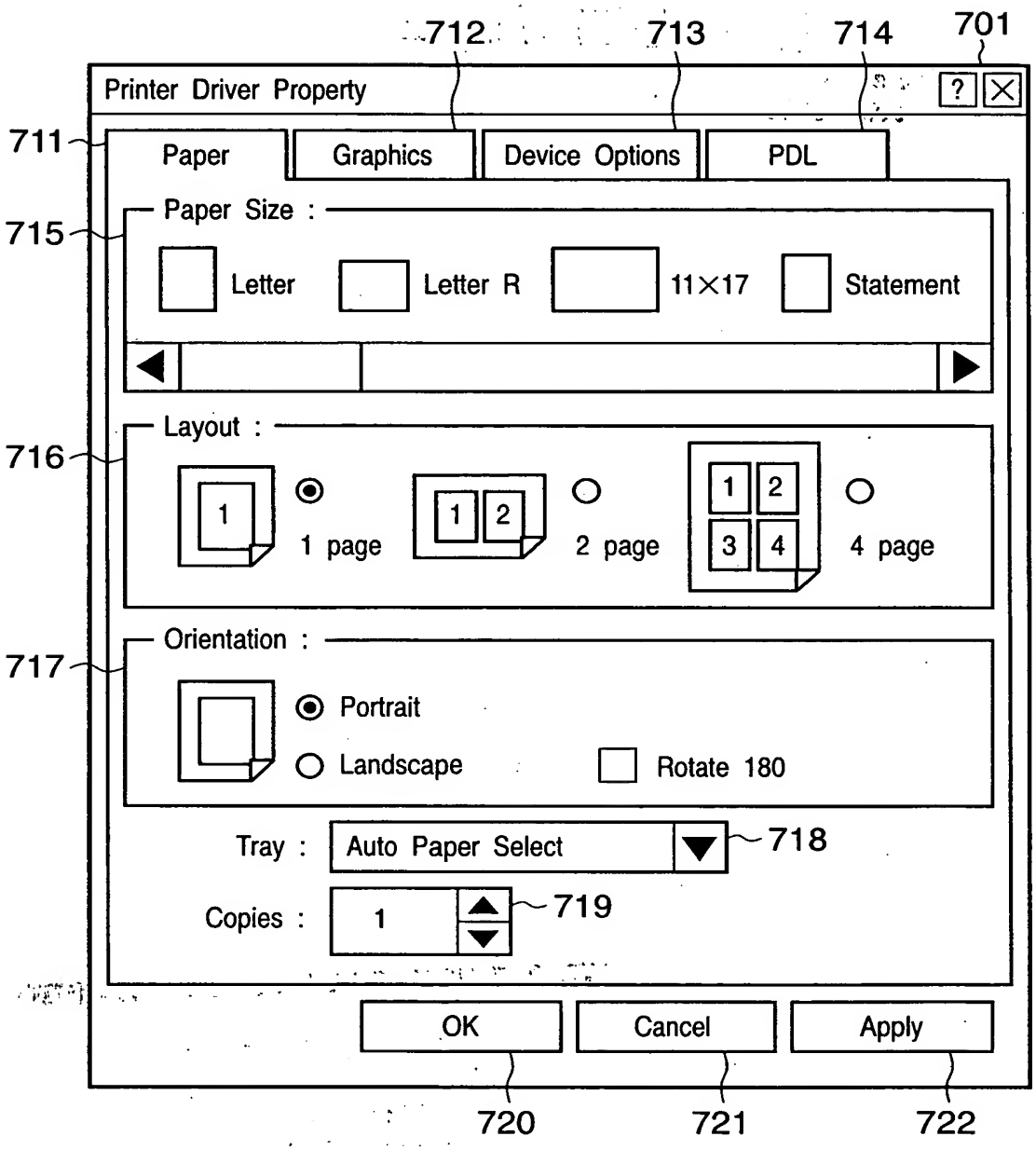

712
713
714
701
Printer Driver Property
711
Paper
Graphics
Device Options
PDL
715
Paper Size :
Letter
Letter R
11×17
Statement
716
Layout :
1 page
2 page
4 page
717
Orientation :
Portrait
Landscape
Rotate 180
Tray :
Auto Paper Select
718
Copies :
1
719
OK
Cancel
Apply
720
721
722

FIG. 10

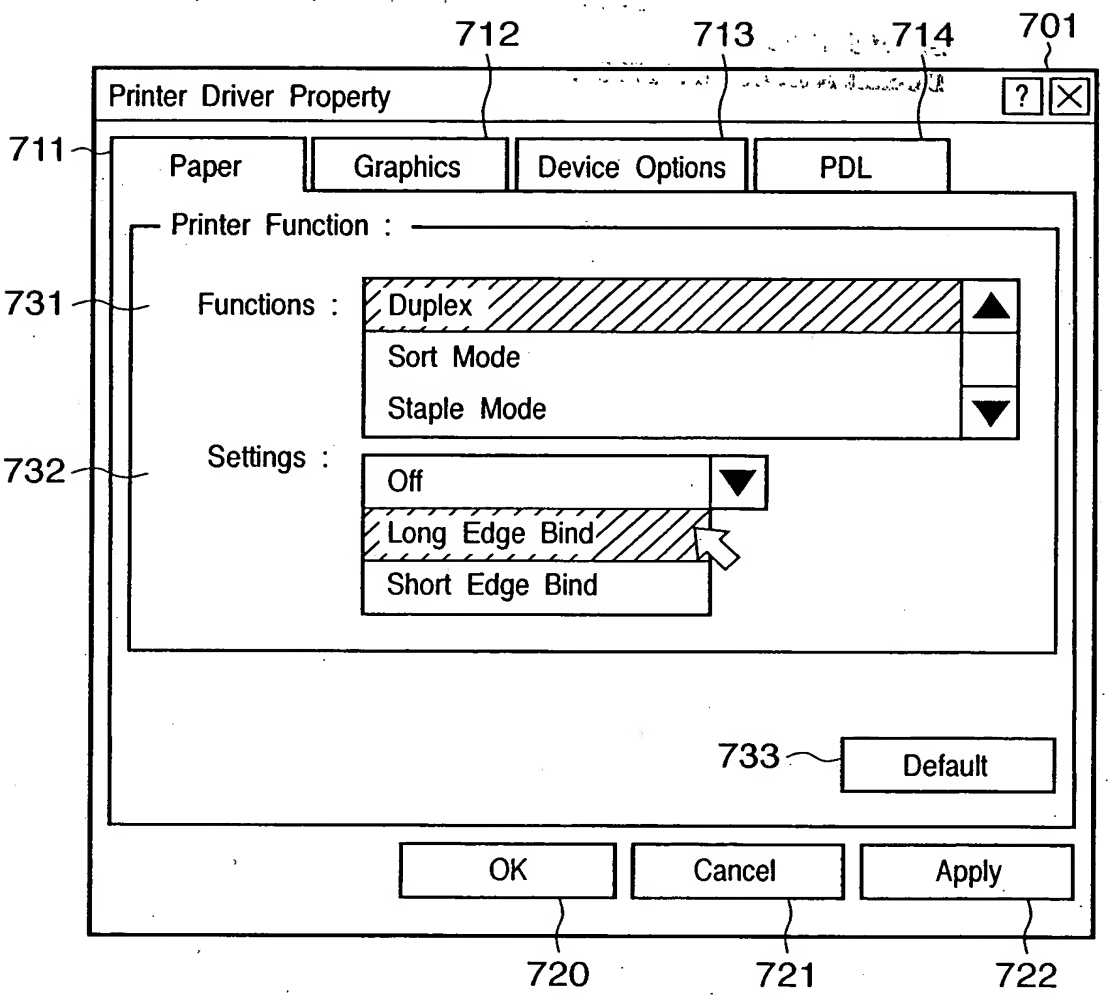

712
713
714
701
Printer Driver Property
?
711
Paper
Graphics
Device Options
PDL
Printer Function :
731
Functions :
Duplex
Sort Mode
Staple Mode
732
Settings :
Off
Long Edge Bind
Short Edge Bind
733
Default
OK
Cancel
Apply
720
721
722

FIG. 11

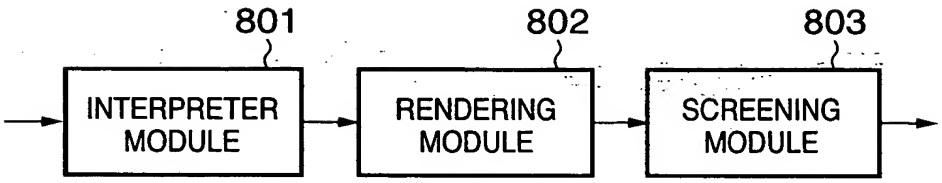

801
802
803
INTERPRETER MODULE
RENDERING MODULE
SCREENING MODULE

FIG. 12A

```
[DESCRIPTION OF R901]
Char_color={0.0, 0.0, 0.0, 1.0}                    ← L911
string1="ABC" ;                                    ← L912
put_char (0.0, 0.0, 0.2, 0.3, string1) ;           ← L913

[DESCRIPTION OF R902]
line_color={1.0, 0.0, 0.0, 0.0}                    ← L921
put_line (0.9, 0.0, 0.9, 0.1) ;                    ← L922

[DESCRIPTION OF R903]
image1={CMYK, 8, 5, C0, M0, Y0, K0,                ← L931
                    C1, M1, Y1, K1,


                    C24, M24, Y24, K24} ;
put_image (0.0, 0.5, 0.5, 0.5, image1) ;           ← L932
```

FIG. 12B

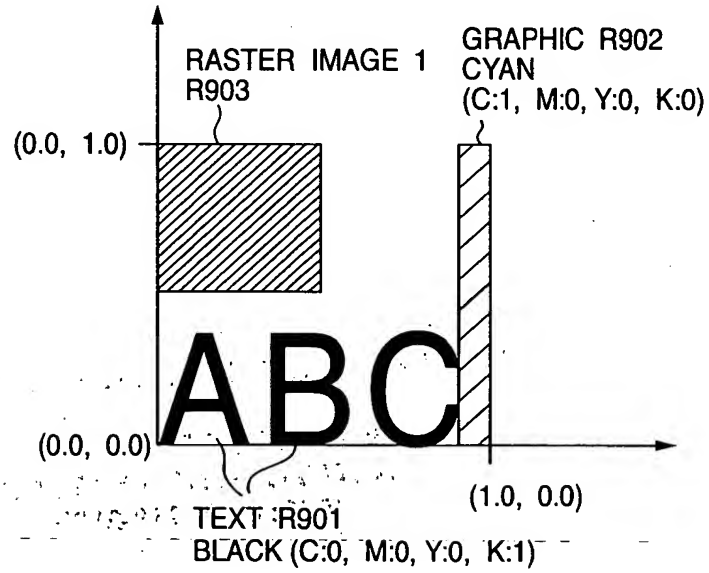


FIG. 13

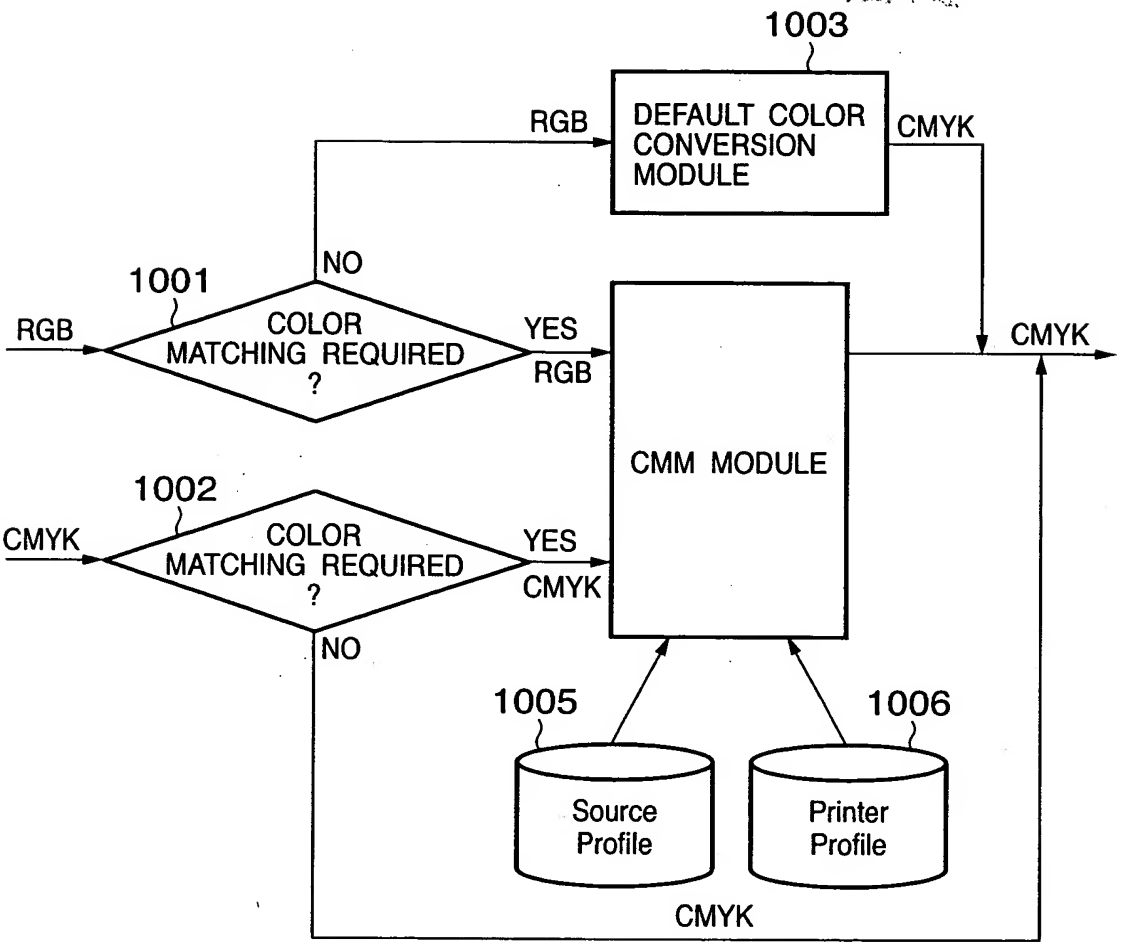

1003
DEFAULT COLOR CONVERSION MODULE
RGB
CMYK
NO
1001
RGB
COLOR MATCHING REQUIRED ?
YES
RGB
CMYK
CMM MODULE
1002
CMYK
COLOR MATCHING REQUIRED ?
YES
CMYK
NO
1005
1006
Source Profile
Printer Profile
CMYK

FIG. 14A

LINEAR GAMMA TABLE G0

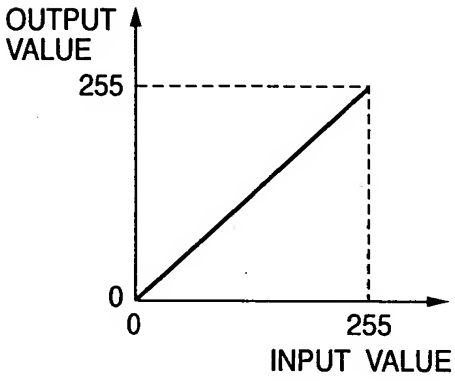


FIG. 14B

PRINTER OUTPUT CHARACTERISTICS Gp OF MFP 104a

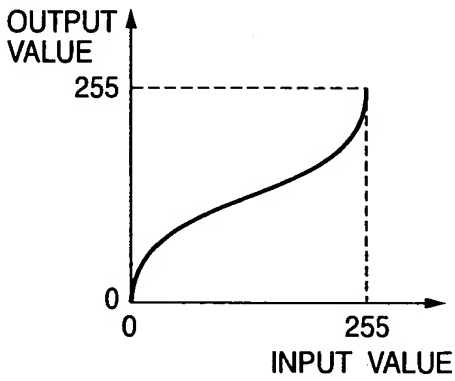


FIG. 14C

GAMMA TABLE Ga FOR MFP 104a

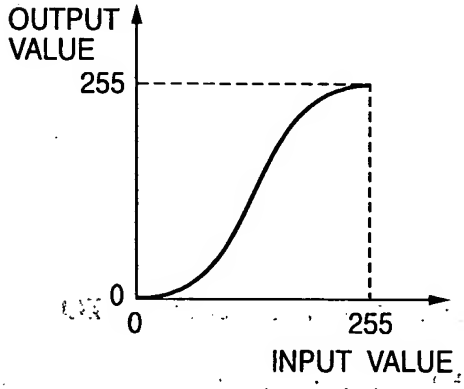


FIG. 14D

GAMMA TABLE Gb FOR MFP 104b

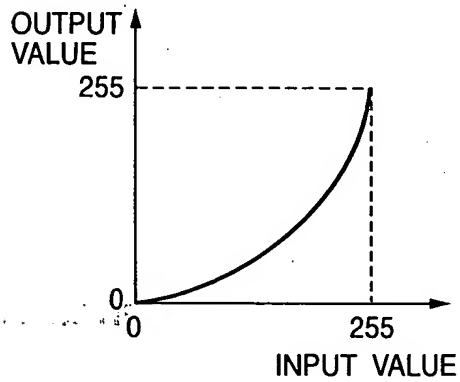


FIG. 15

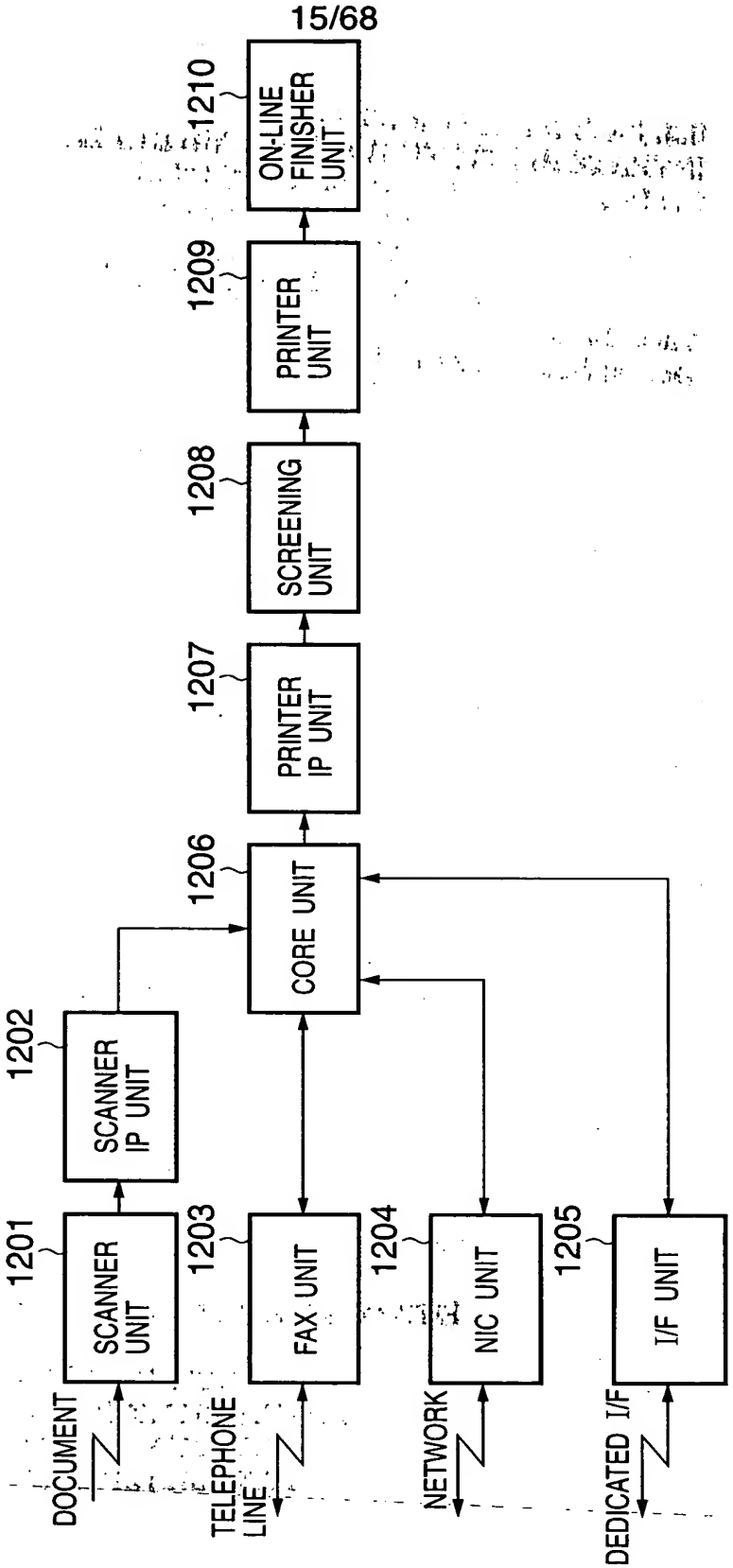

1210
ON-LINE FINISHER UNIT
1209
PRINTER UNIT
1208
SCREENING UNIT
1207
PRINTER IP UNIT
1206
CORE UNIT
1202
SCANNER IP UNIT
1201
SCANNER UNIT
1203
FAX UNIT
1204
NIC UNIT
1205
I/F UNIT
DOCUMENT
TELEPHONE LINE
NETWORK
DEDICATED I/F

FIG. 16A

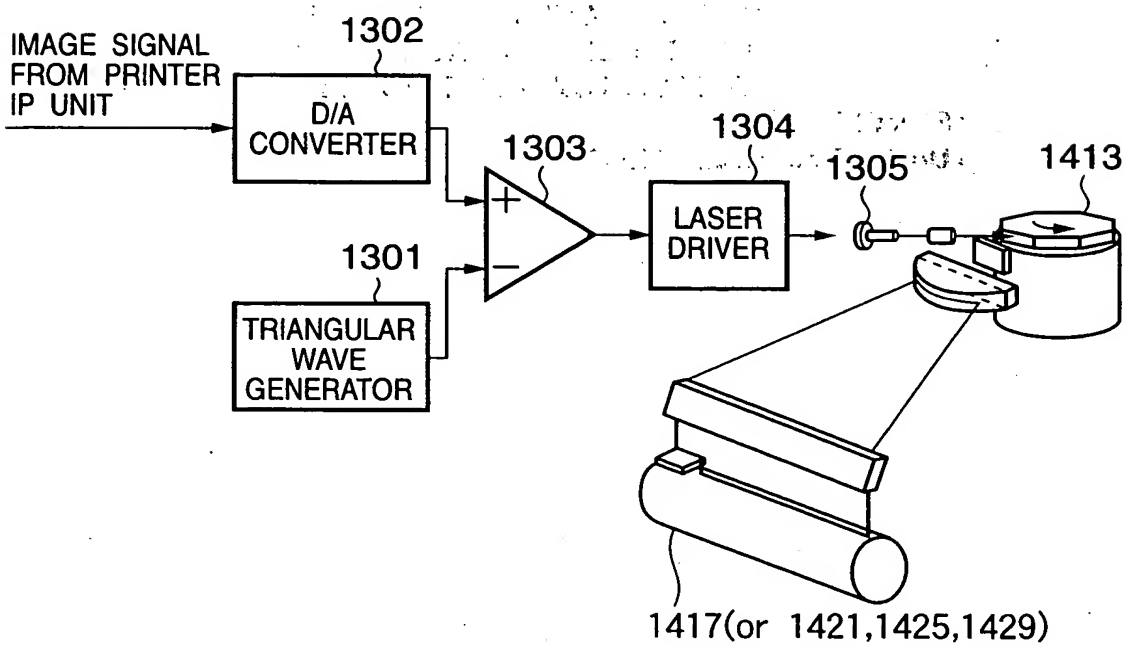


FIG. 16B

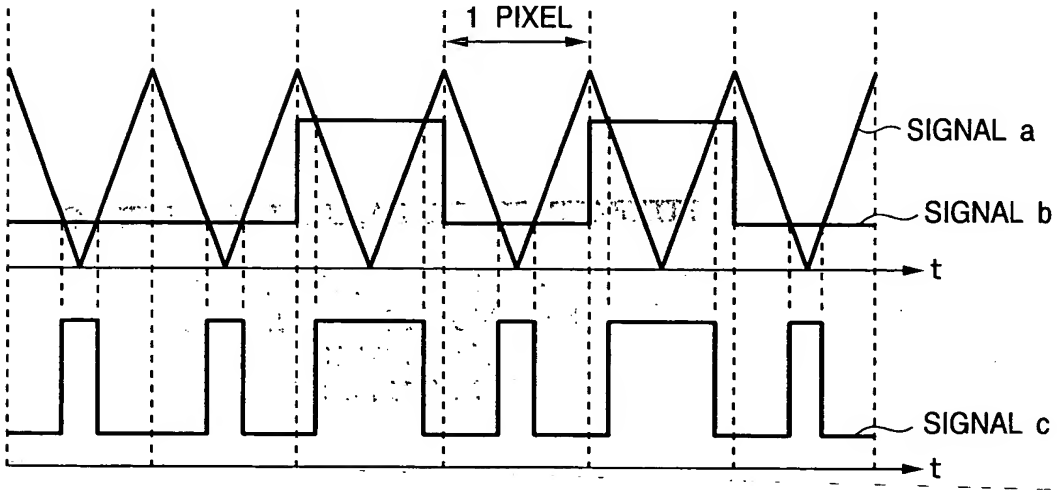
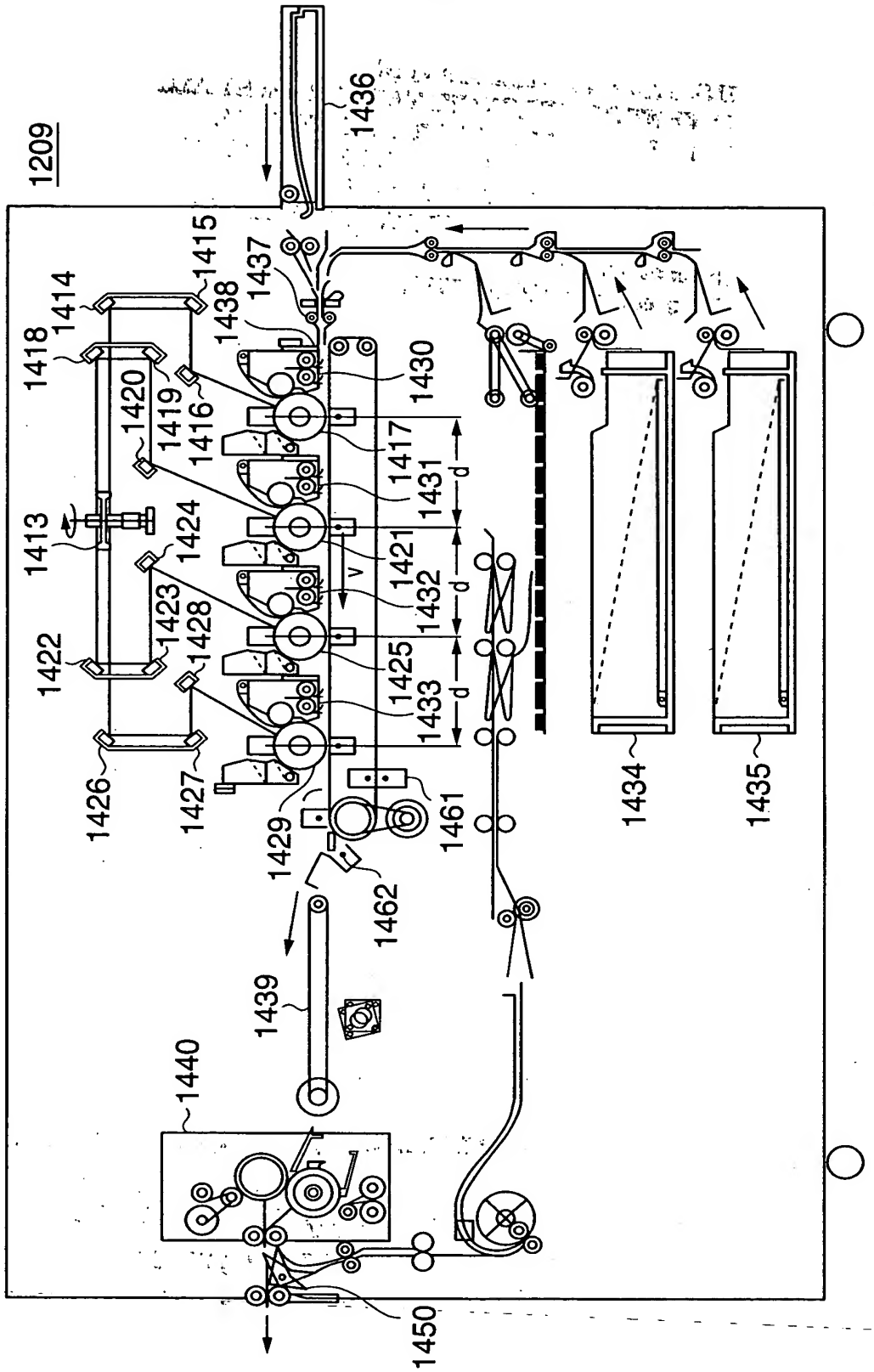


FIG. 17


1209
1436
1415
1437
1414
1438
1418
1430
1420
1419
1416
1417
1431
d
1413
1424
1421
v
1423
1428
1432
1422
1425
1433
1426
1427
1429
1461
1462
1434
1435
1439
1440
1450

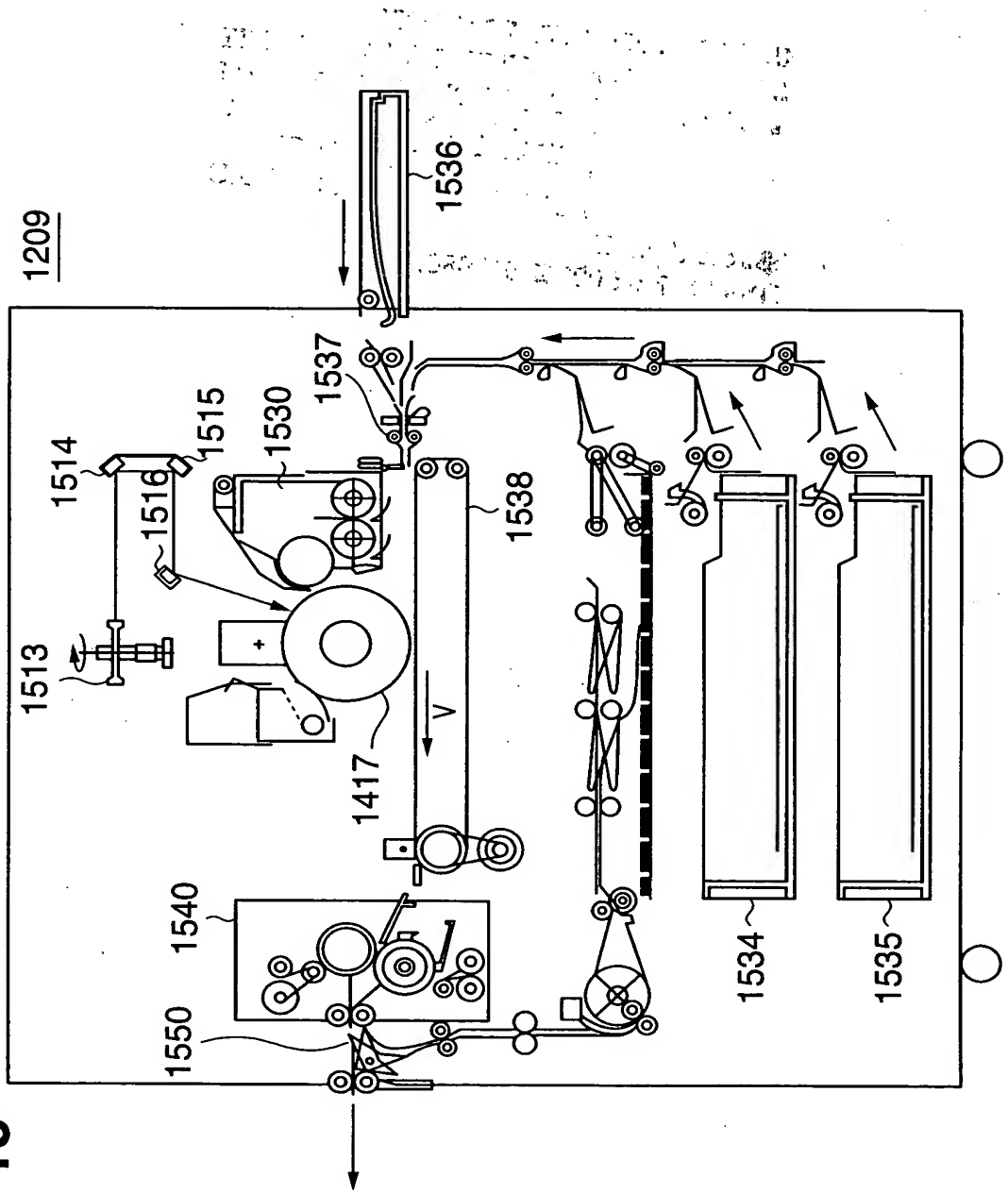

1209
1536
1537
1530
1515
1514
1516
1538
1513
V
1417
1540
1550
1534
1535

FIG. 18

FIG. 19

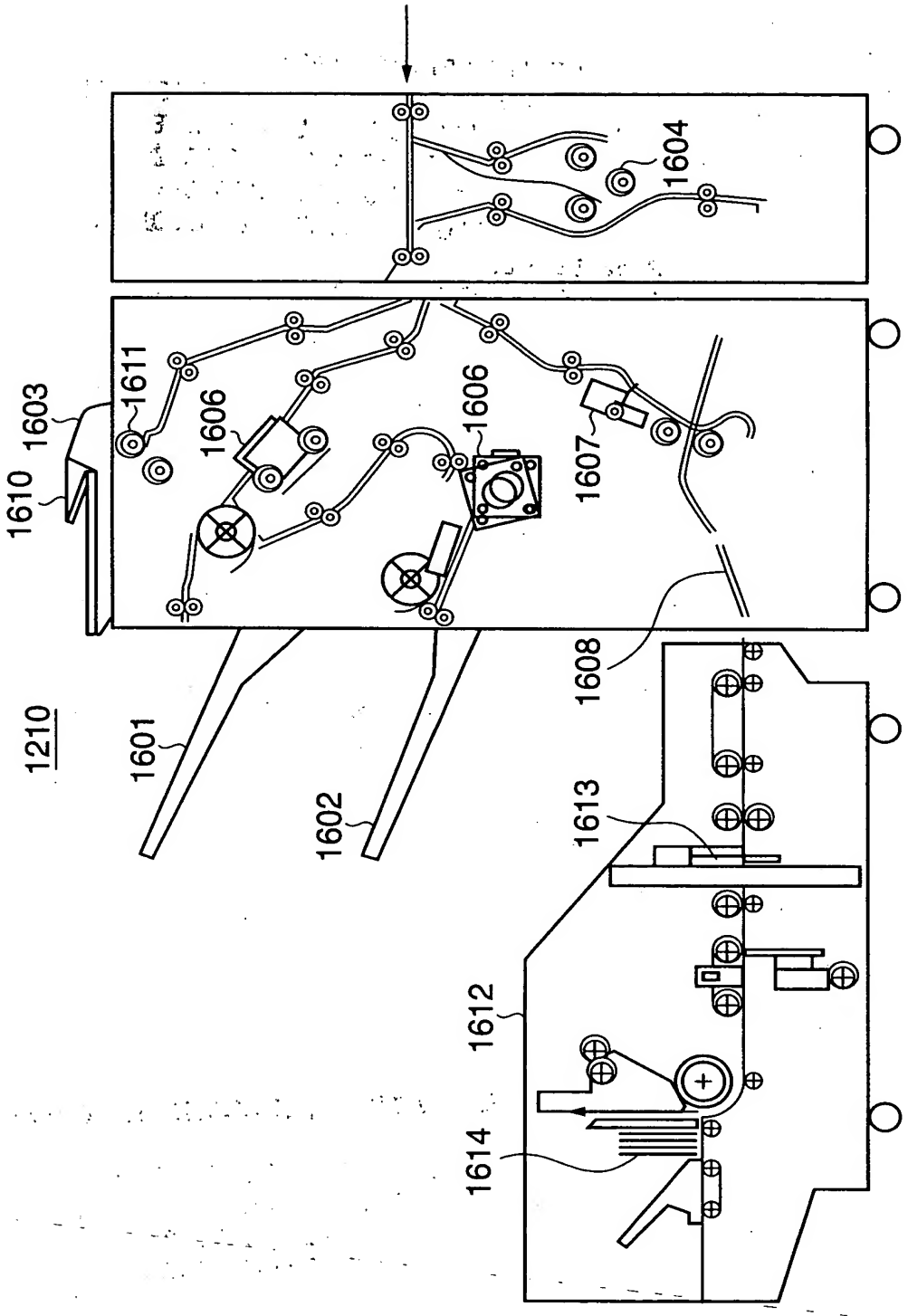

1210
1601
1602
1603
1604
1606
1606
1607
1608
1610
1611
1612
1613
1614

FIG. 20

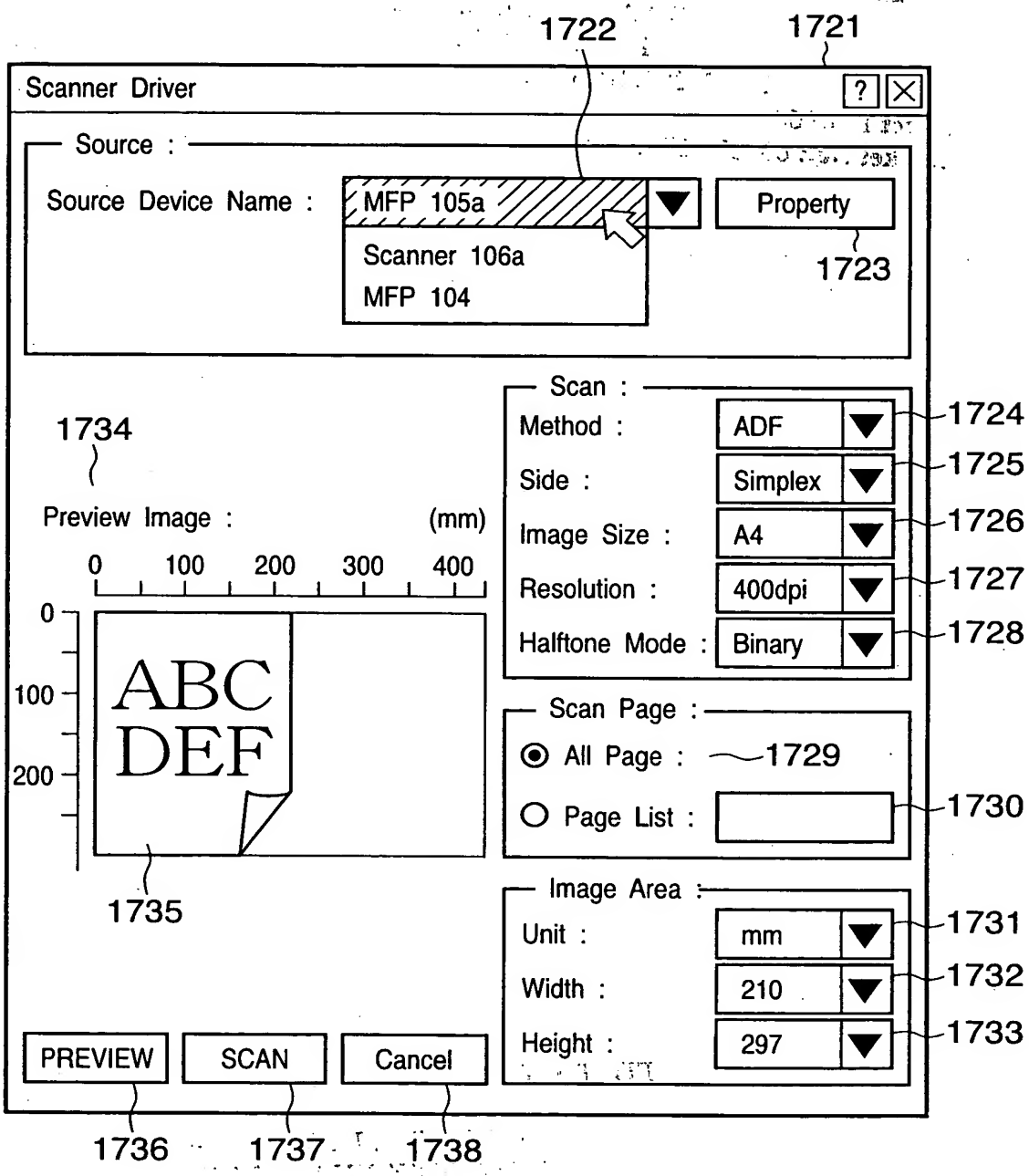

1722
1721
Scanner Driver
Source :
Source Device Name :
MFP 105a
Scanner 106a
MFP 104
Property
1723
1734
Preview Image :
(mm)
0
100
200
300
400
ABC
DEF
1735
Scan :
Method :
ADF
1724
Side :
Simplex
1725
Image Size :
A4
1726
Resolution :
400dpi
1727
Halftone Mode :
Binary
1728
Scan Page :
All Page :
1729
Page List :
1730
Image Area :
Unit :
mm
1731
Width :
210
1732
Height :
297
1733
PREVIEW
SCAN
Cancel
1736
1737
1738

FIG. 21

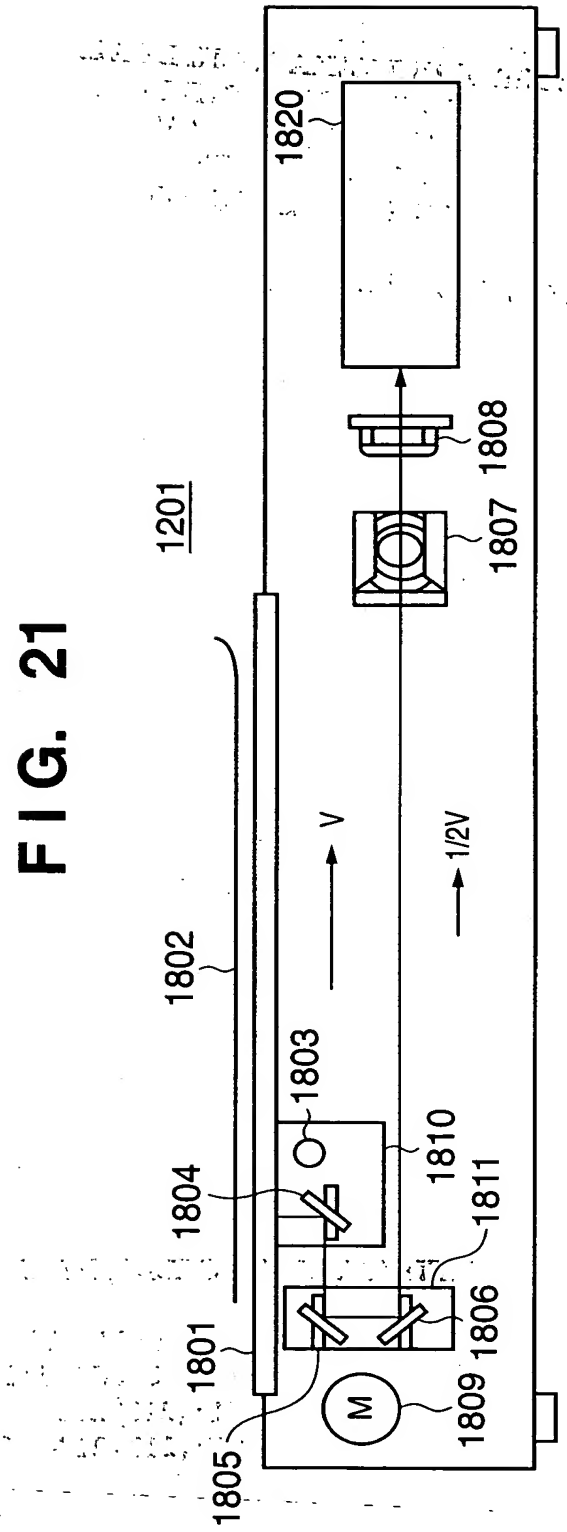

1820
1808
1807
1201
V
1/2V
1802
1803
1810
1804
1811
1806
1801
M
1809
1805

FIG. 22A

IN CASE OF COLOR SCANNER :

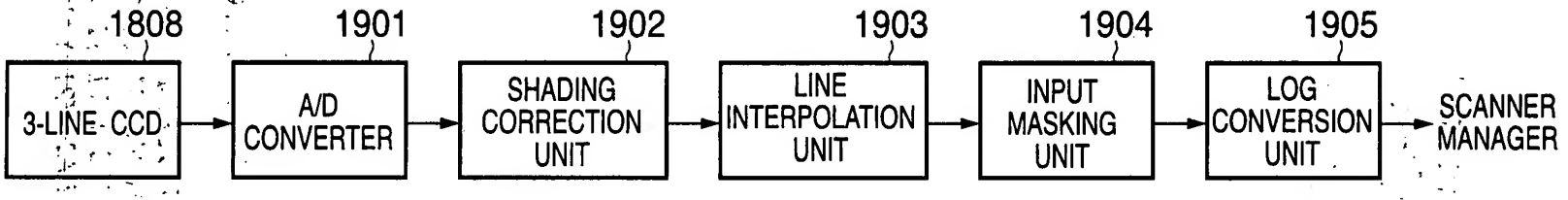


FIG. 22B

IN CASE OF MONOCHROME SCANNER :

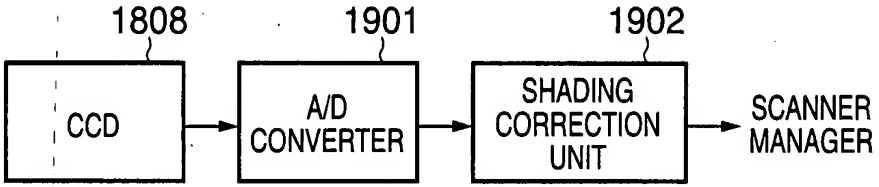


FIG. 23

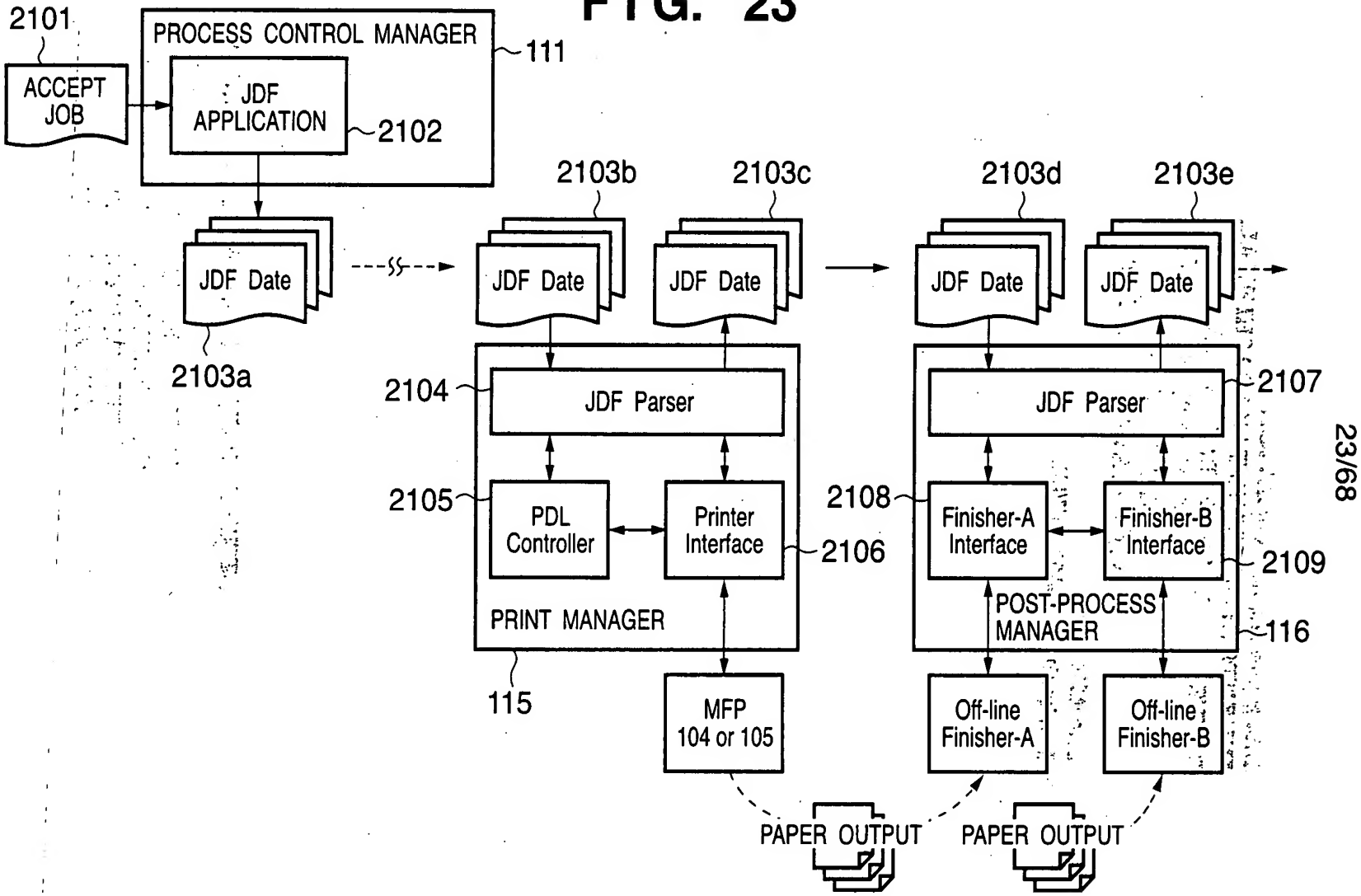

2101
ACCEPT JOB
PROCESS CONTROL MANAGER
111
JDF APPLICATION
2102
JDF Date
2103a
2103b
2103c
2103d
2103e
2104
JDF Parser
2105
PDL Controller
Printer Interface
2106
PRINT MANAGER
115
MFP 104 or 105
2107
2108
Finisher-A Interface
Finisher-B Interface
2109
POST-PROCESS MANAGER
116
Off-line Finisher-A
Off-line Finisher-B
PAPER OUTPUT
PAPER OUTPUT

FIG. 24

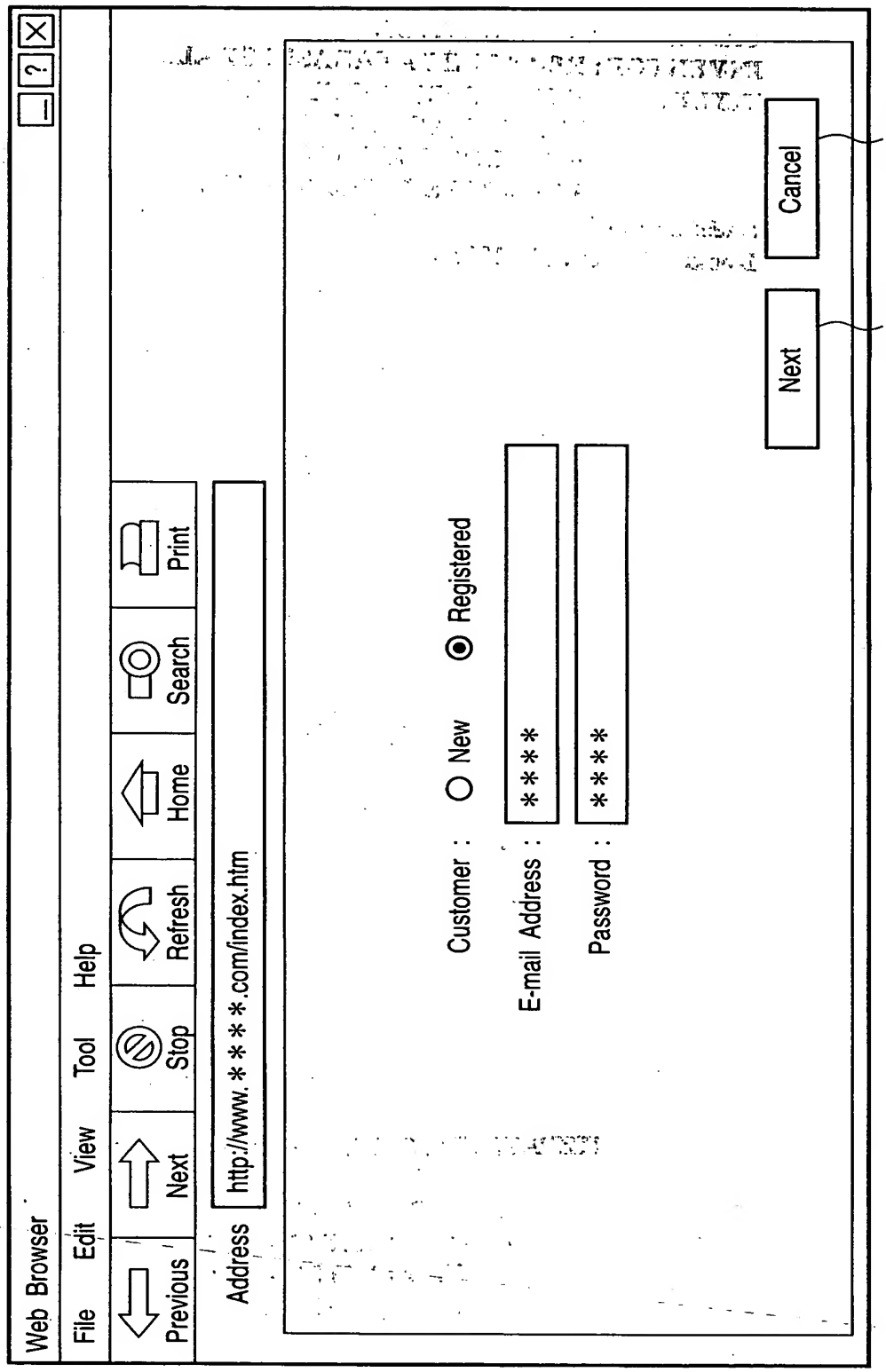

Web Browser
File Edit View Tool Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://www.****.com/index.htm
Customer :
New
Registered
E-mail Address :
****
Password :
****
Next
Cancel
2209
2210

FIG. 25

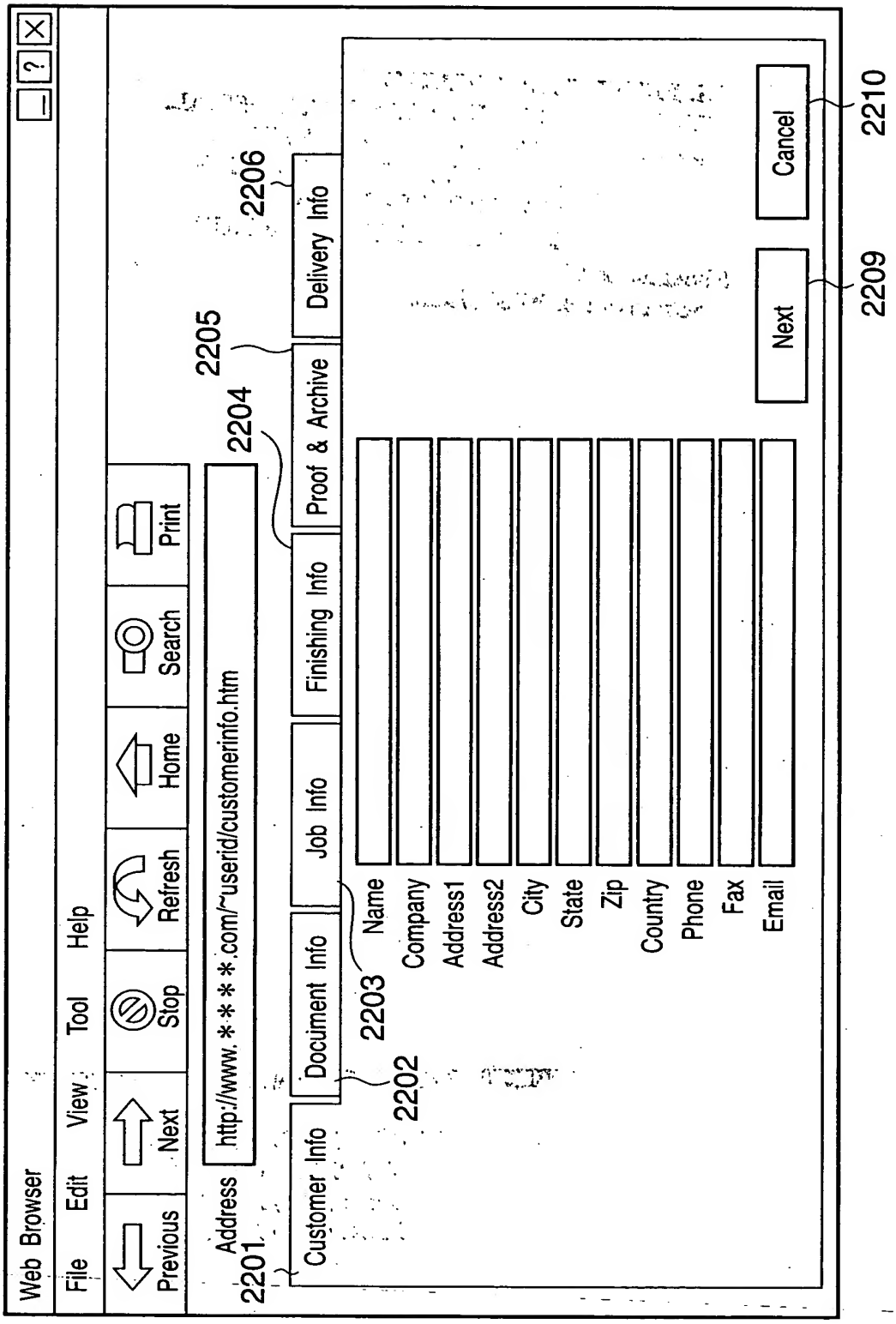

Web Browser
File Edit View Tool Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://www.****.com/~userid/customerinfo.htm
2201
Customer Info
Document Info
Job Info
Finishing Info
Proof & Archive
Delivery Info
2202
2203
2204
2205
2206
Name
Company
Address1
Address2
City
State
Zip
Country
Phone
Fax
Email
Next
Cancel
2209
2210

FIG. 26

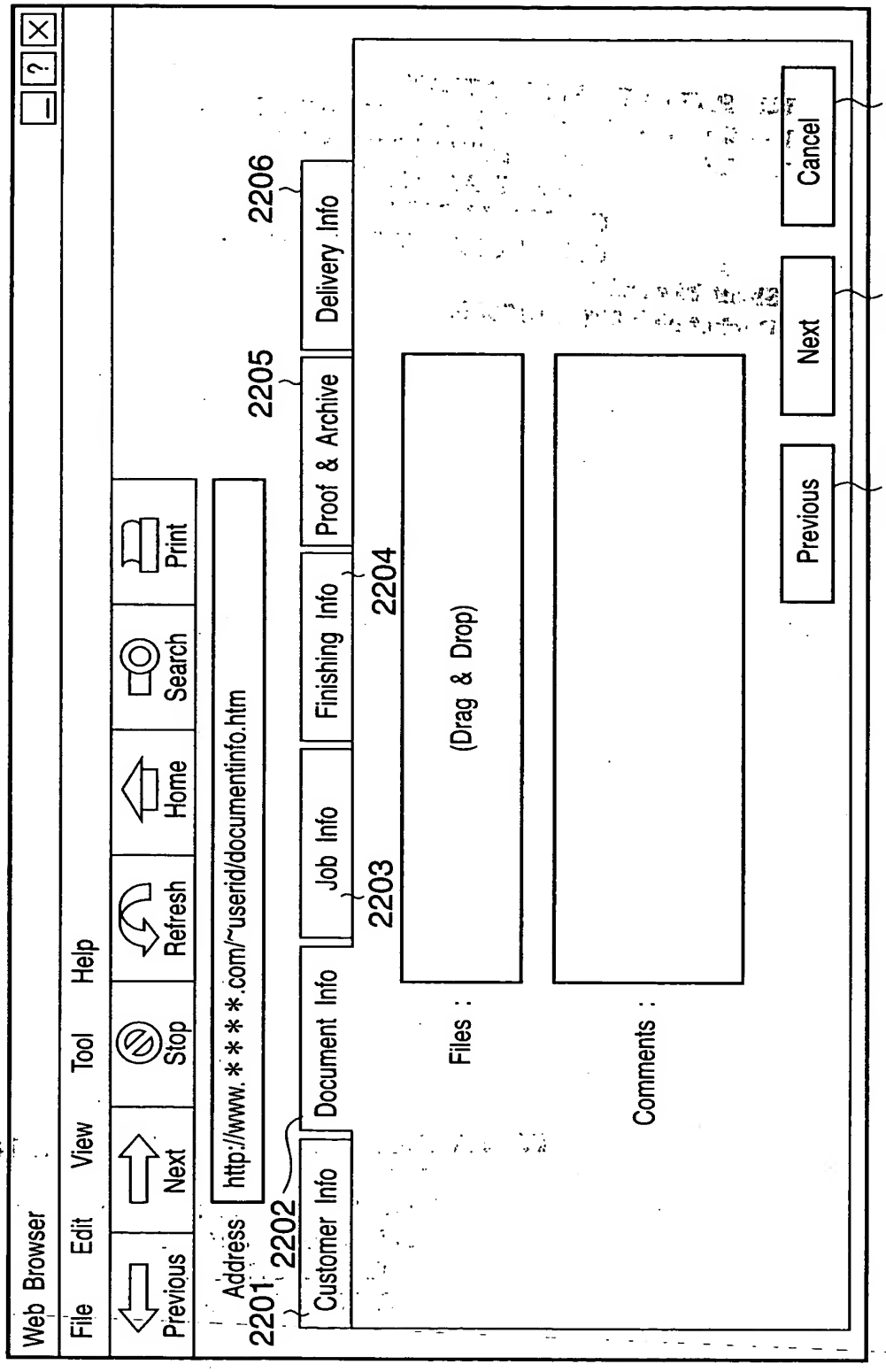

Web Browser
File Edit View Tool Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://www.****.com/~userid/documentinfo.htm
2201
2202
Customer Info
Document Info
Job Info
2203
Finishing Info
2204
Proof & Archive
2205
Delivery Info
2206
Files :
(Drag & Drop)
Comments :
Previous
2208
Next
2209
Cancel
2210

FIG. 27

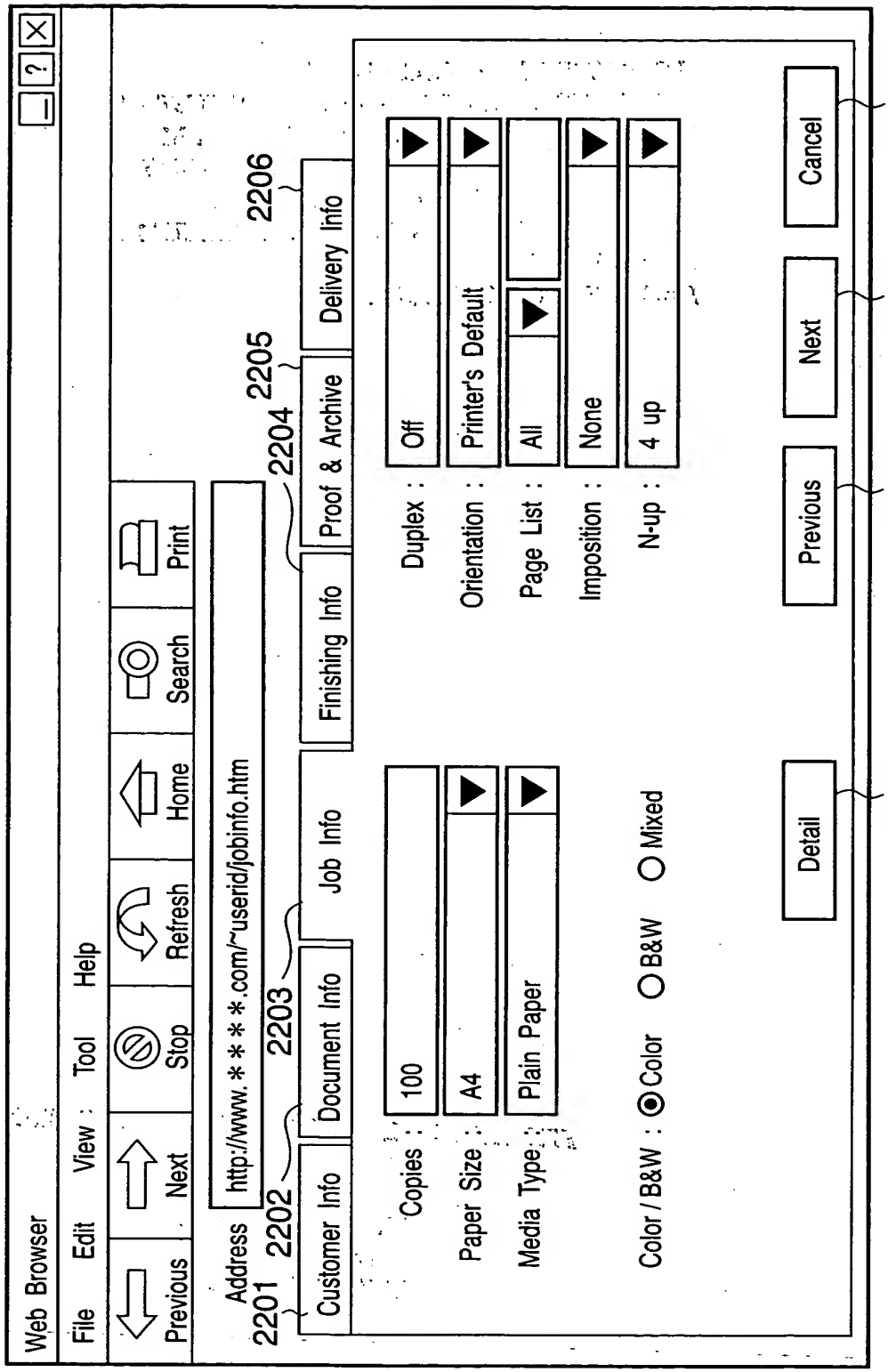

Web Browser
File Edit View : Tool Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://www.****.com/~userid/jobinfo.htm
2201
2202
2203
2204
2205
2206
Customer Info
Document Info
Job Info
Finishing Info
Proof & Archive
Delivery Info
Copies :
100
Paper Size :
A4
Media Type :
Plain Paper
Color / B&W : Color B&W Mixed
Duplex :
Off
Orientation :
Printer's Default
Page List :
All
Imposition :
None
N-up :
4 up
Detail
Previous
Next
Cancel
2207
2208
2209
2210

FIG. 28

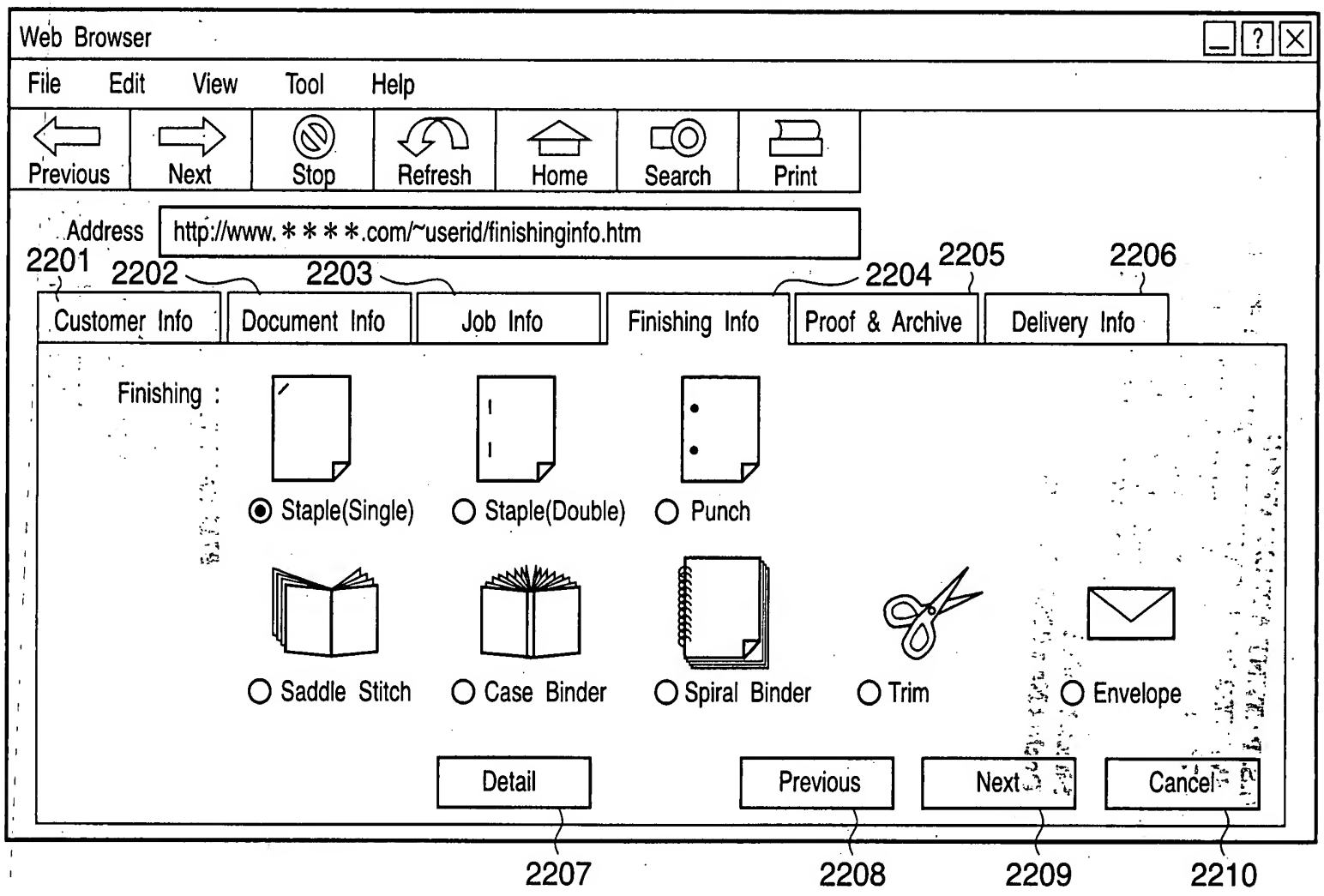

Web Browser
File
Edit
View
Tool
Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://www.****.com/~userid/finishinginfo.htm
2201
2202
2203
2204
2205
2206
Customer Info
Document Info
Job Info
Finishing Info
Proof & Archive
Delivery Info
Finishing :
Staple(Single)
Staple(Double)
Punch
Saddle Stitch
Case Binder
Spiral Binder
Trim
Envelope
Detail
Previous
Next
Cancel
2207
2208
2209
2210

FIG. 29

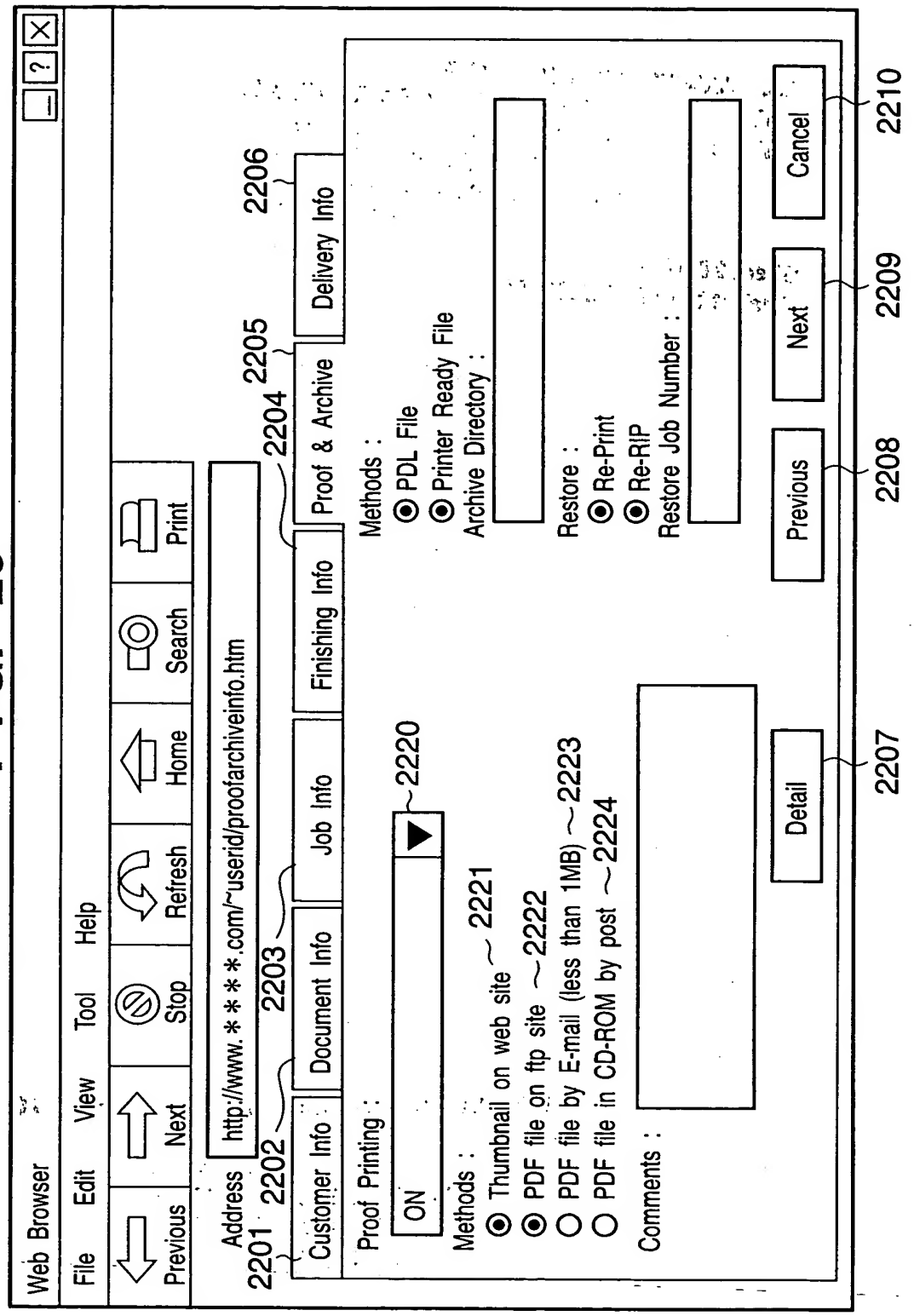

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://www.****.com/~userid/proofarchiveinfo.htm
2201 2202 2203 2204 2205 2206
Customer Info
Document Info
Job Info
Finishing Info
Proof & Archive
Delivery Info
Proof Printing :
ON
2220
Methods :
Thumbnail on web site 2221
PDF file on ftp site 2222
PDF file by E-mail (less than 1MB) 2223
PDF file in CD-ROM by post 2224
Comments :
Methods :
PDL File
Printer Ready File
Archive Directory :
Restore :
Re-Print
Re-RIP
Restore Job Number :
Detail
2207
Previous
2208
Next
2209
Cancel
2210

FIG. 30

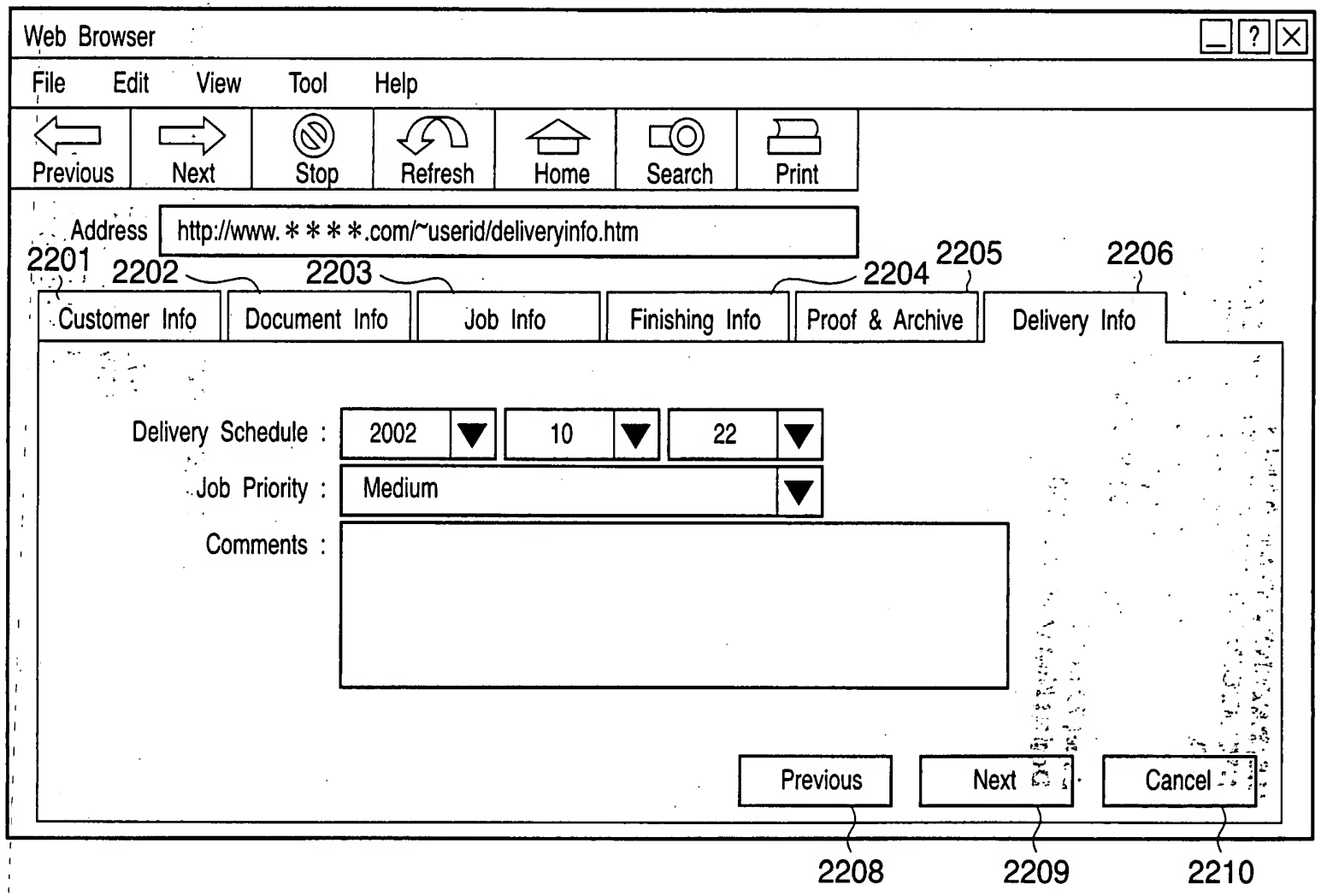

Web Browser
File
Edit
View
Tool
Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://www.****.com/~userid/deliveryinfo.htm
2201
2202
2203
2204
2205
2206
Customer Info
Document Info
Job Info
Finishing Info
Proof & Archive
Delivery Info
Delivery Schedule :
2002
10
22
Job Priority :
Medium
Comments :
Previous
Next
Cancel
2208
2209
2210

FIG. 31

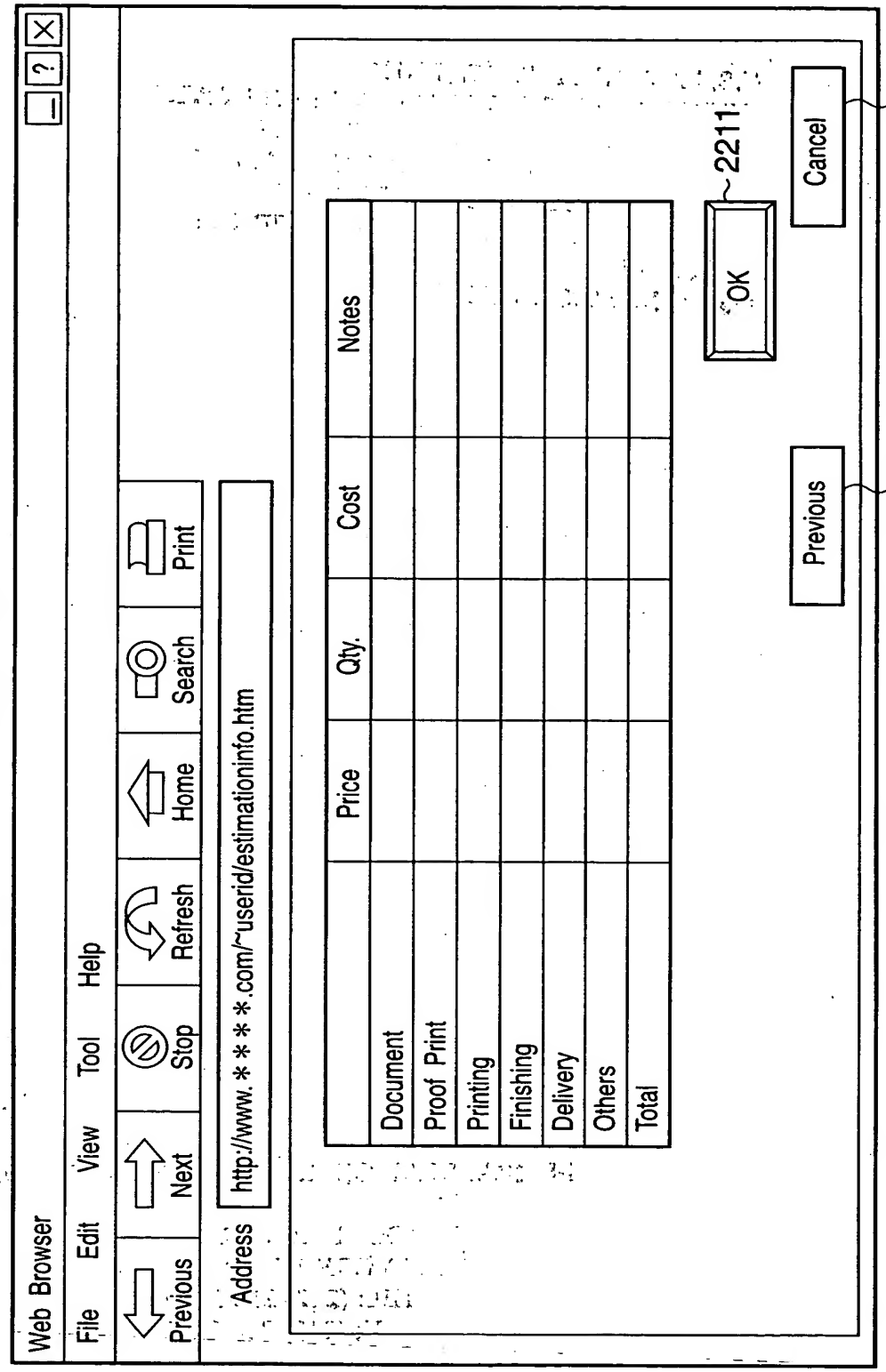

Web Browser
File Edit View Tool Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://www.****.com/~userid/estimationinfo.htm
Price
Qty.
Cost
Notes
Document
Proof Print
Printing
Finishing
Delivery
Others
Total
OK
2211
Previous
2208
Cancel
2210

FIG. 32

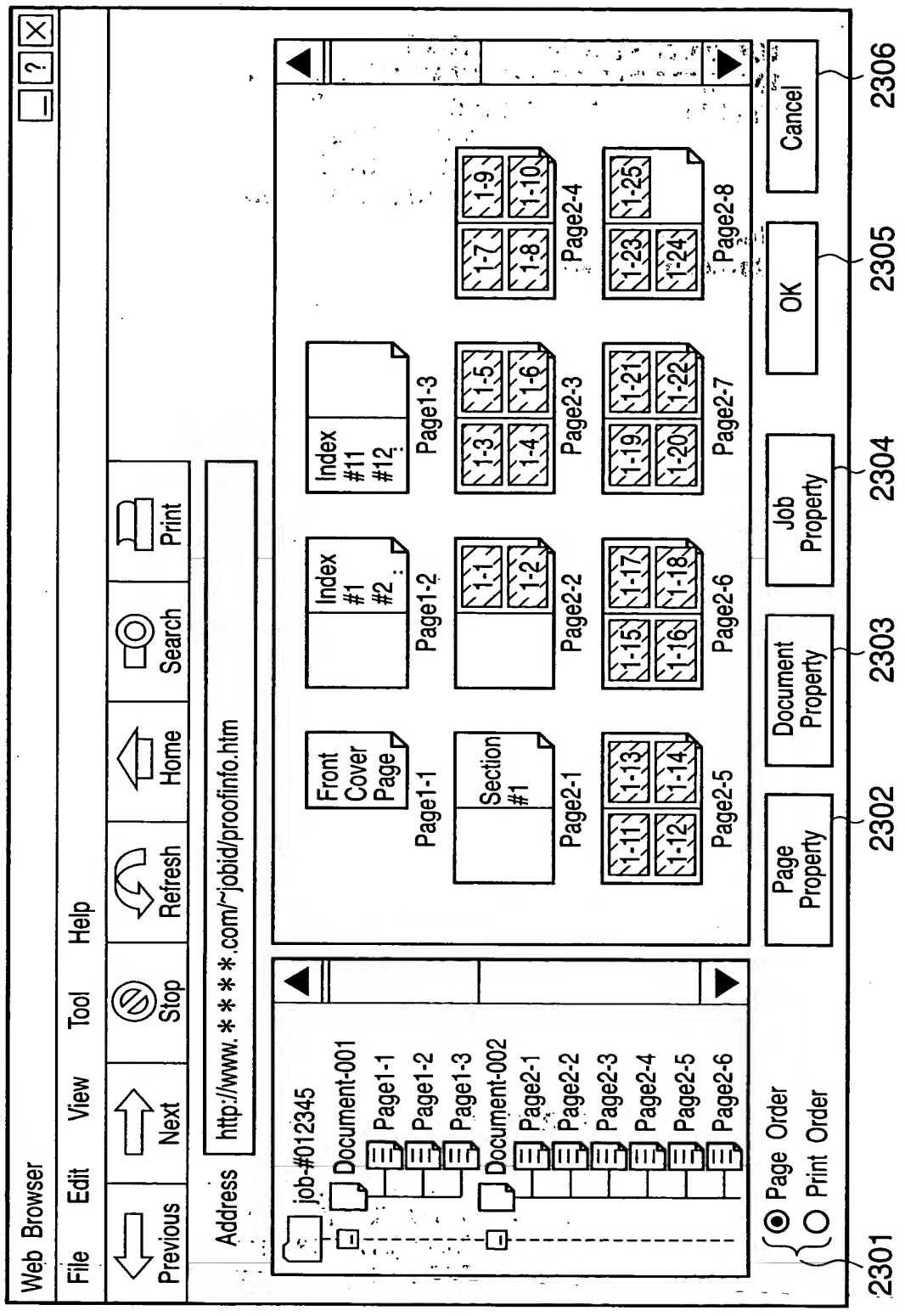

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://www.****.com/~jobid/proofinfo.htm
job-#012345
Document-001
Page1-1
Page1-2
Page1-3
Document-002
Page2-1
Page2-2
Page2-3
Page2-4
Page2-5
Page2-6
Front Cover Page
Index #1 #2
Index #11 #12
Section #1
1-1
1-2
1-3
1-4
1-5
1-6
1-7
1-8
1-9
1-10
1-11
1-12
1-13
1-14
1-15
1-16
1-17
1-18
1-19
1-20
1-21
1-22
1-23
1-24
1-25
Page1-2
Page1-3
Page2-2
Page2-3
Page2-4
Page2-5
Page2-6
Page2-7
Page2-8
Page Order
Print Order
Page Property
Document Property
Job Property
OK
Cancel
2301
2302
2303
2304
2305
2306

FIG. 33

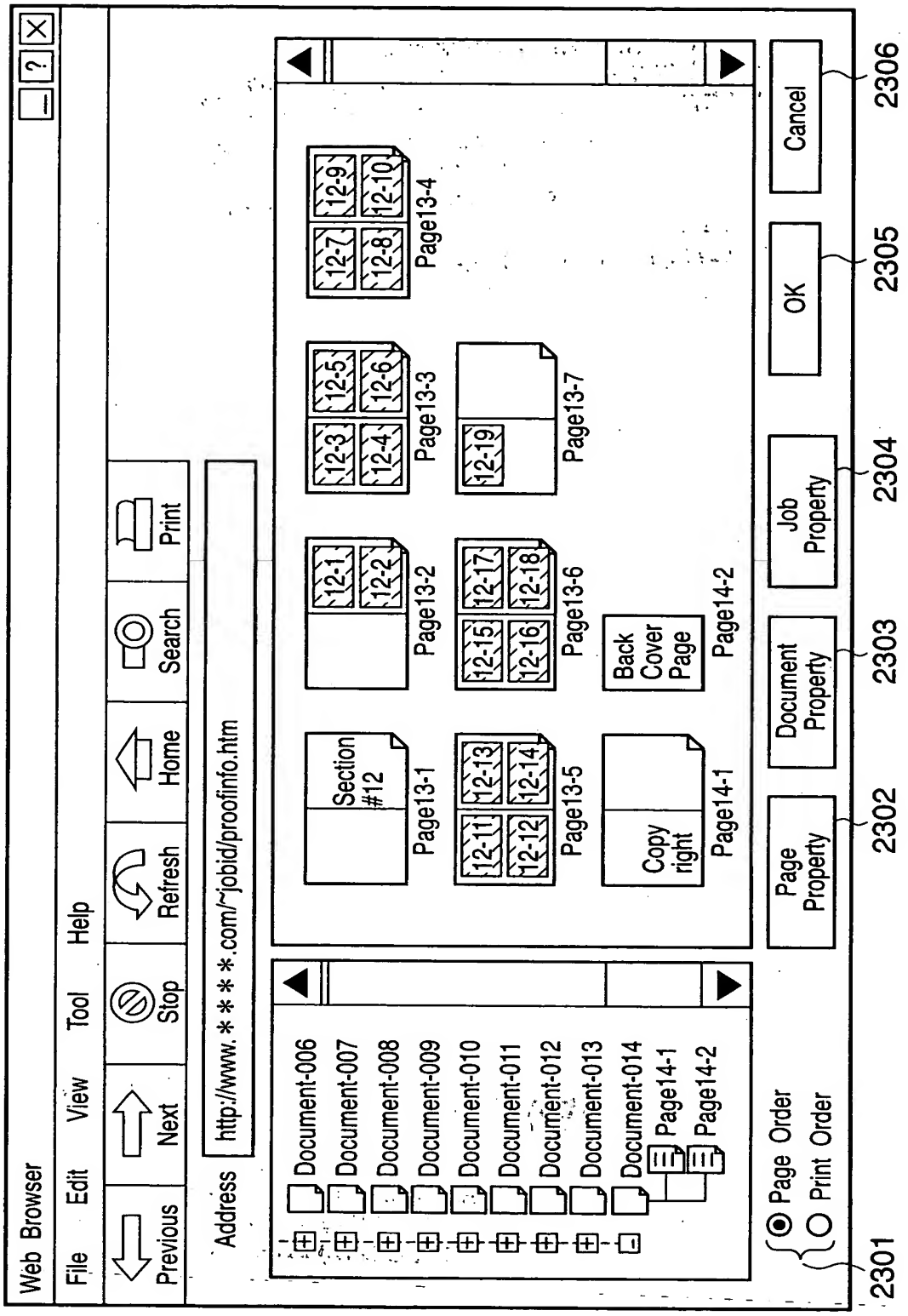

Web Browser
File Edit View Tool Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://www.****.com/~jobid/proofinfo.htm
Document-006
Document-007
Document-008
Document-009
Document-010
Document-011
Document-012
Document-013
Document-014
Page14-1
Page14-2
Page Order
Print Order
Section #12
Page13-1
12-1
12-2
Page13-2
12-3
12-4
12-5
12-6
Page13-3
12-7
12-8
12-9
12-10
Page13-4
12-11
12-12
12-13
12-14
Page13-5
12-15
12-16
12-17
12-18
Page13-6
12-19
Page13-7
Copy right
Page14-1
Back Cover Page
Page14-2
Page Property
Document Property
Job Property
OK
Cancel
2301
2302
2303
2304
2305
2306

FIG. 34

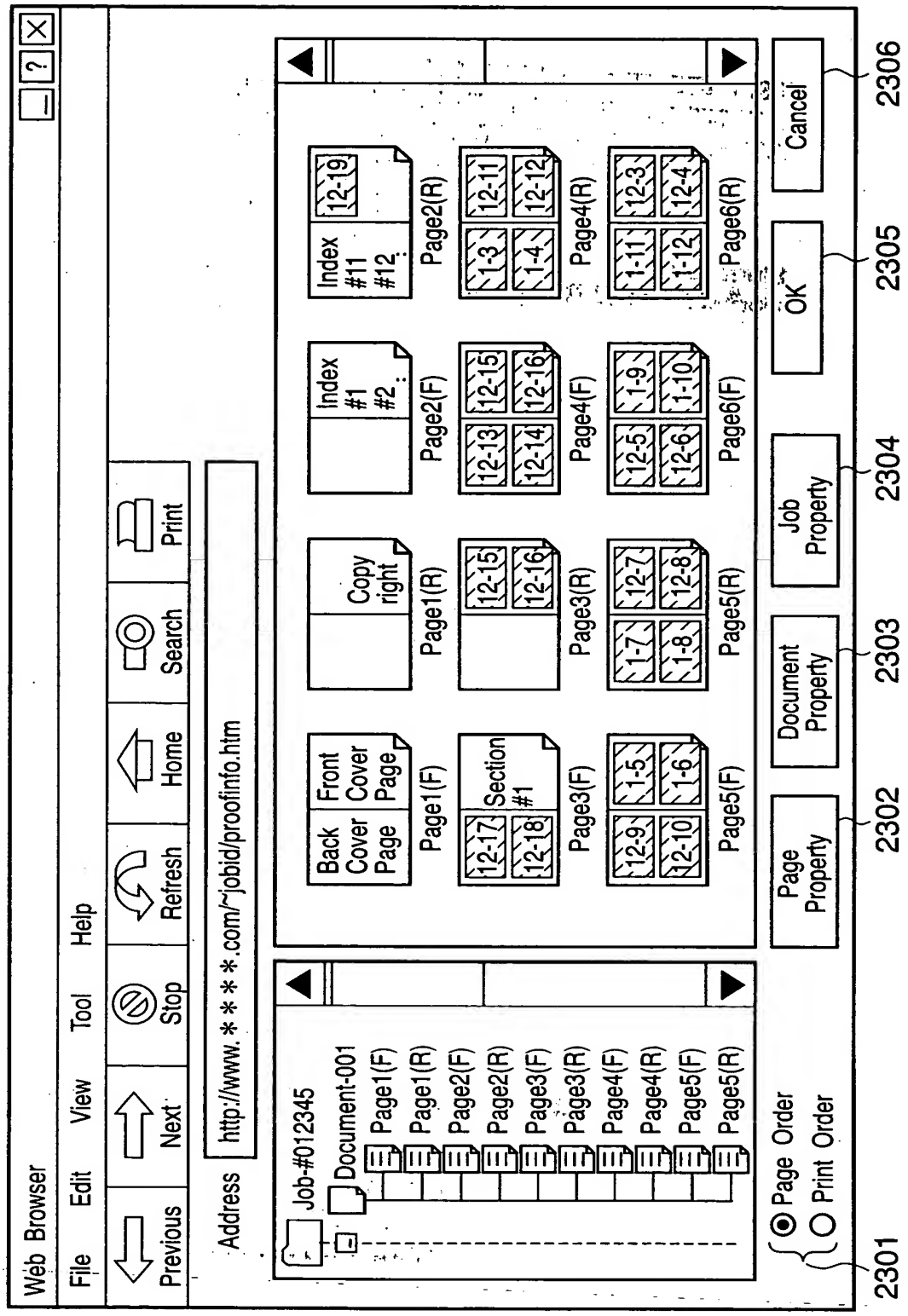

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://www.****.com/~jobid/proofinfo.htm
Job-#012345
Document-001
Page1(F) Page1(R) Page2(F) Page2(R) Page3(F) Page3(R) Page4(F) Page4(R) Page5(F) Page5(R)
Back Cover Page
Front Cover Page
Copy right
Index #1 #2
Index #11 #12
12-17 12-18 Section #1
12-15 12-16
1-7 1-8 12-7 12-8
1-9 1-10 12-5 12-6
1-3 1-4 12-11 12-12
1-11 1-12 12-3 12-4
12-9 12-10 1-5 1-6
12-13 12-14
Page Property
Document Property
Job Property
OK
Cancel
Page Order
Print Order
2301
2302
2303
2304
2305
2306

FIG. 35

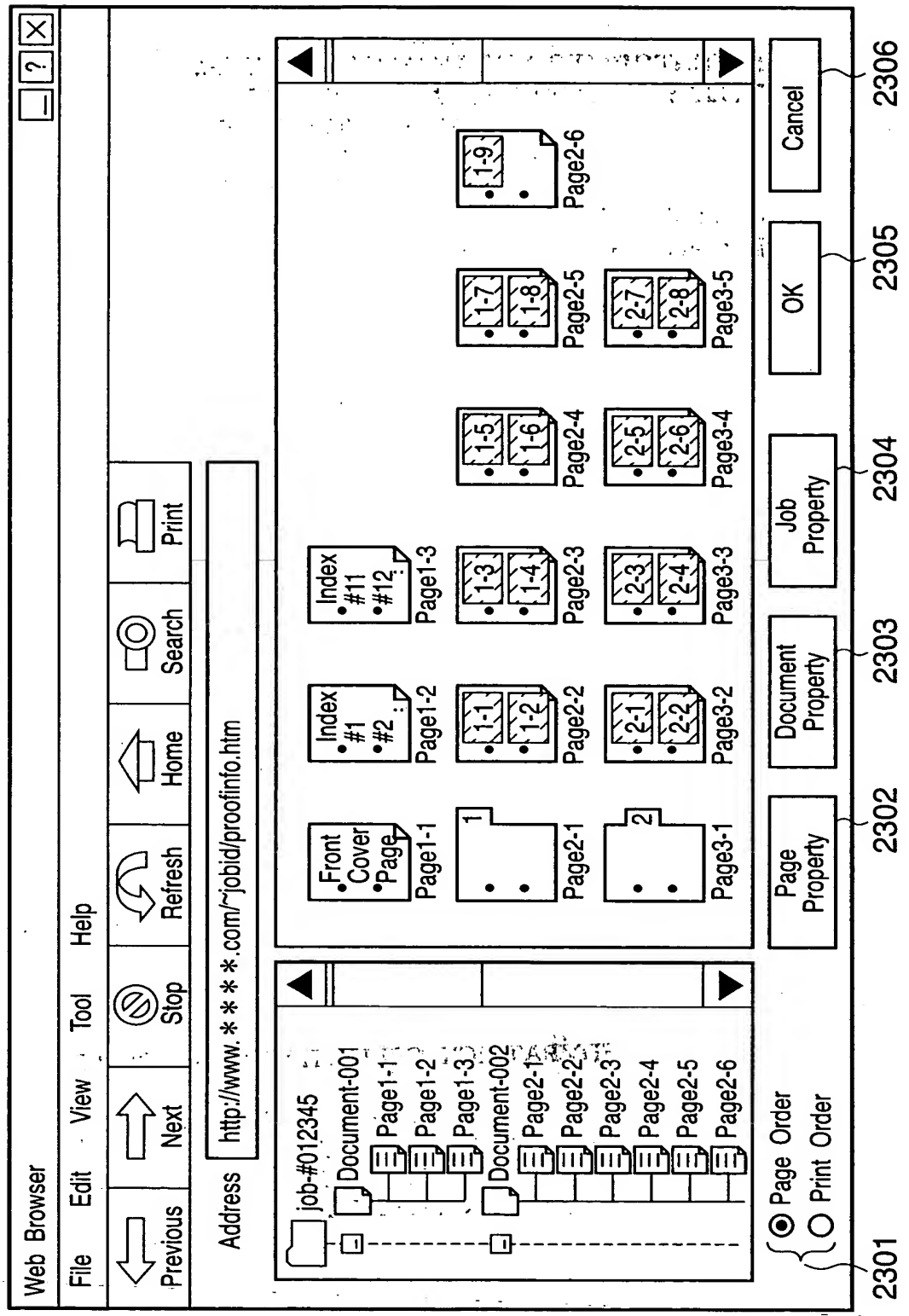

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://www.****.com/~jobid/proofinfo.htm
job-#012345
Document-001
Page1-1
Page1-2
Page1-3
Document-002
Page2-1
Page2-2
Page2-3
Page2-4
Page2-5
Page2-6
Front Cover Page
Page1-1
Index #1 #2
Page1-2
Index #11 #12
Page1-3
1
Page2-1
1-1
1-2
Page2-2
1-3
1-4
Page2-3
1-5
1-6
Page2-4
1-7
1-8
Page2-5
1-9
Page2-6
2
Page3-1
2-1
2-2
Page3-2
2-3
2-4
Page3-3
2-5
2-6
Page3-4
2-7
2-8
Page3-5
Page Property
Document Property
Job Property
OK
Cancel
Page Order
Print Order
2301
2302
2303
2304
2305
2306

FIG. 36

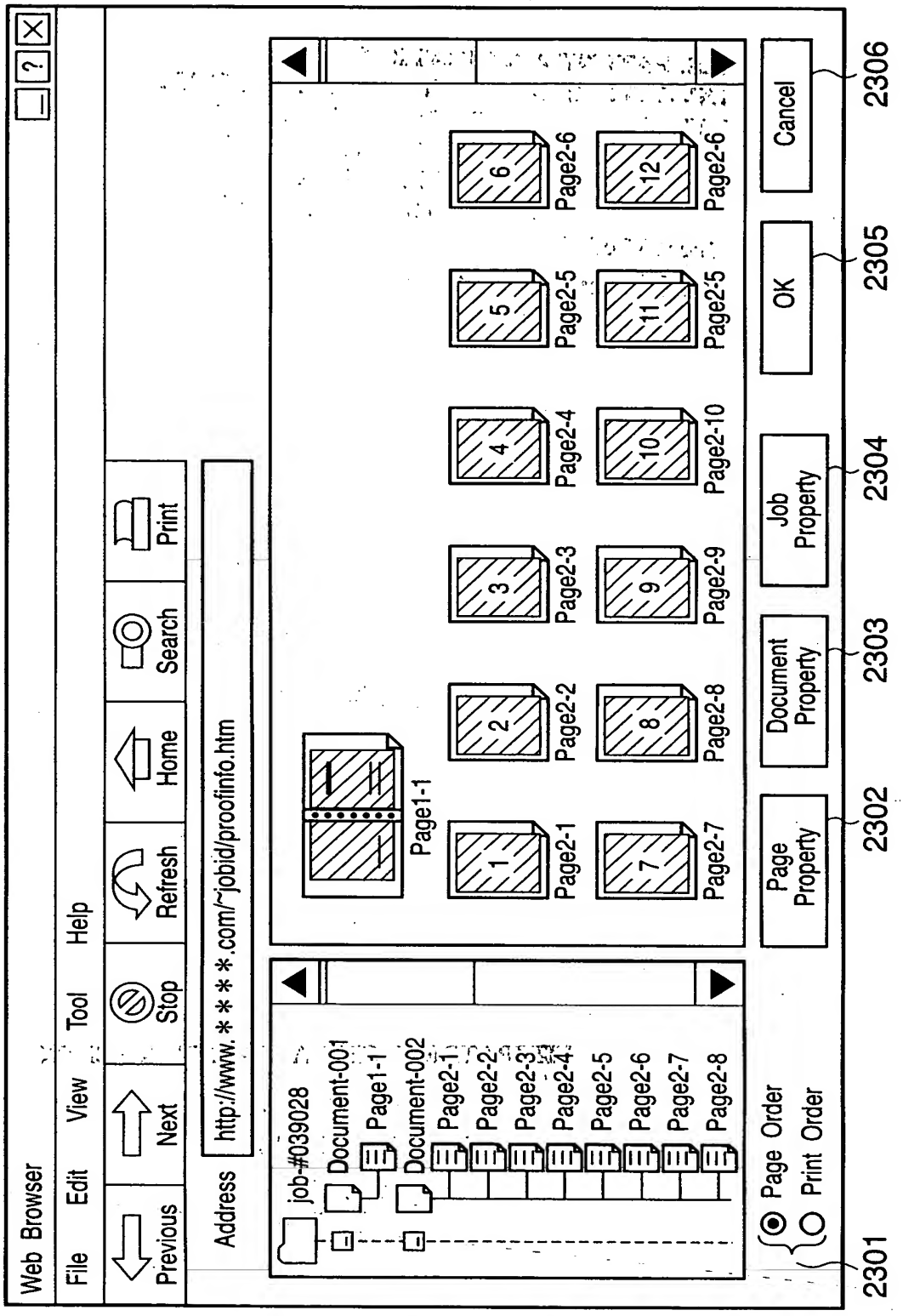

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://www.****.com/~jobid/proofinfo.htm
job-#039028
Document-001
Page1-1
Document-002
Page2-1
Page2-2
Page2-3
Page2-4
Page2-5
Page2-6
Page2-7
Page2-8
Page1-1
Page2-1
Page2-2
Page2-3
Page2-4
Page2-5
Page2-6
Page2-7
Page2-8
Page2-9
Page2-10
Page2-5
Page2-6
Page Order
Print Order
Page Property
Document Property
Job Property
OK
Cancel
2301
2302
2303
2304
2305
2306

FIG. 37

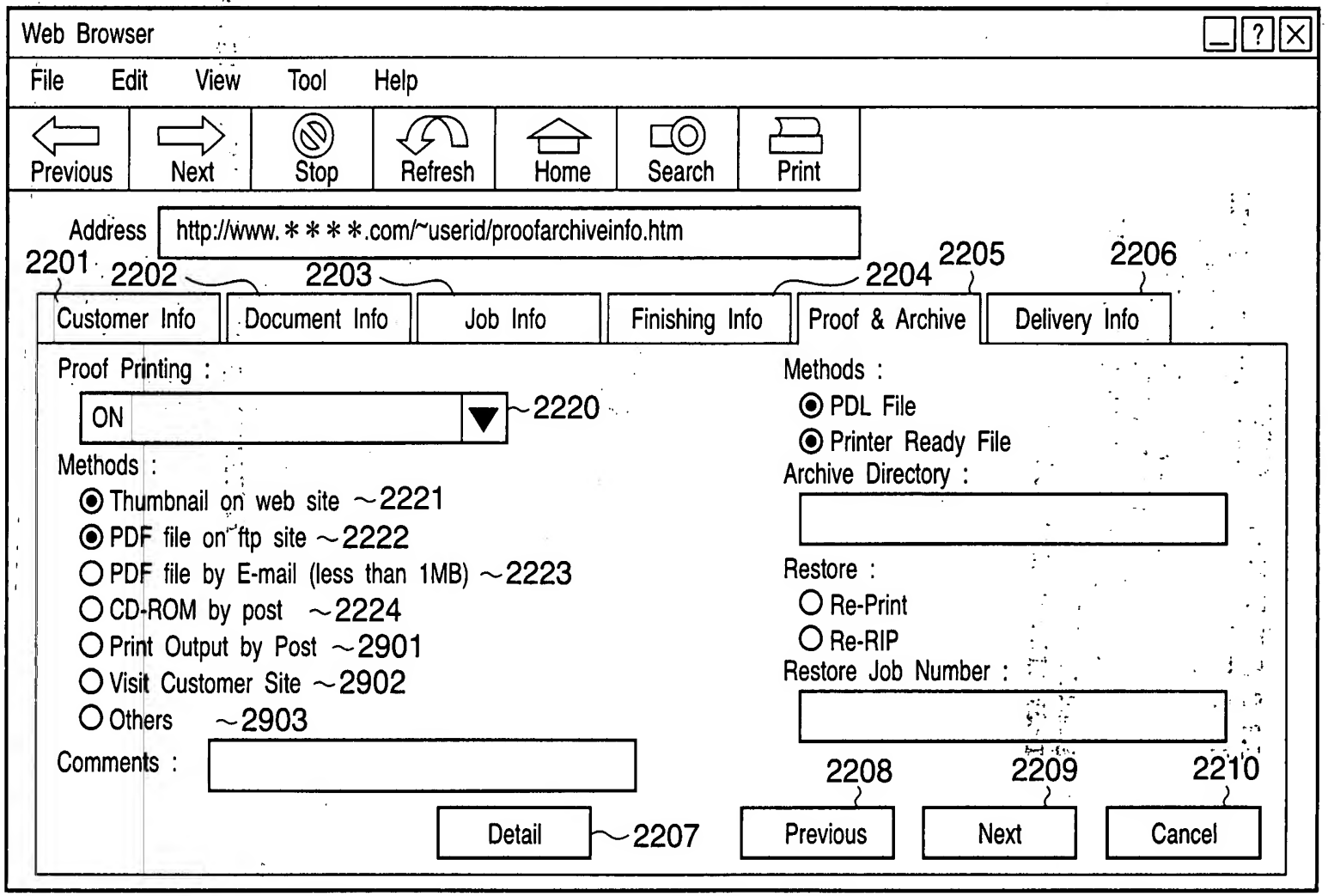

Web Browser
File
Edit
View
Tool
Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://www.****.com/~userid/proofarchiveinfo.htm
2201
2202
2203
2204
2205
2206
Customer Info
Document Info
Job Info
Finishing Info
Proof & Archive
Delivery Info
Proof Printing :
ON
2220
Methods :
Thumbnail on web site 2221
PDF file on ftp site 2222
PDF file by E-mail (less than 1MB) 2223
CD-ROM by post 2224
Print Output by Post 2901
Visit Customer Site 2902
Others 2903
Comments :
Detail
2207
Methods :
PDL File
Printer Ready File
Archive Directory :
Restore :
Re-Print
Re-RIP
Restore Job Number :
2208
2209
2210
Previous
Next
Cancel

FIG. 38

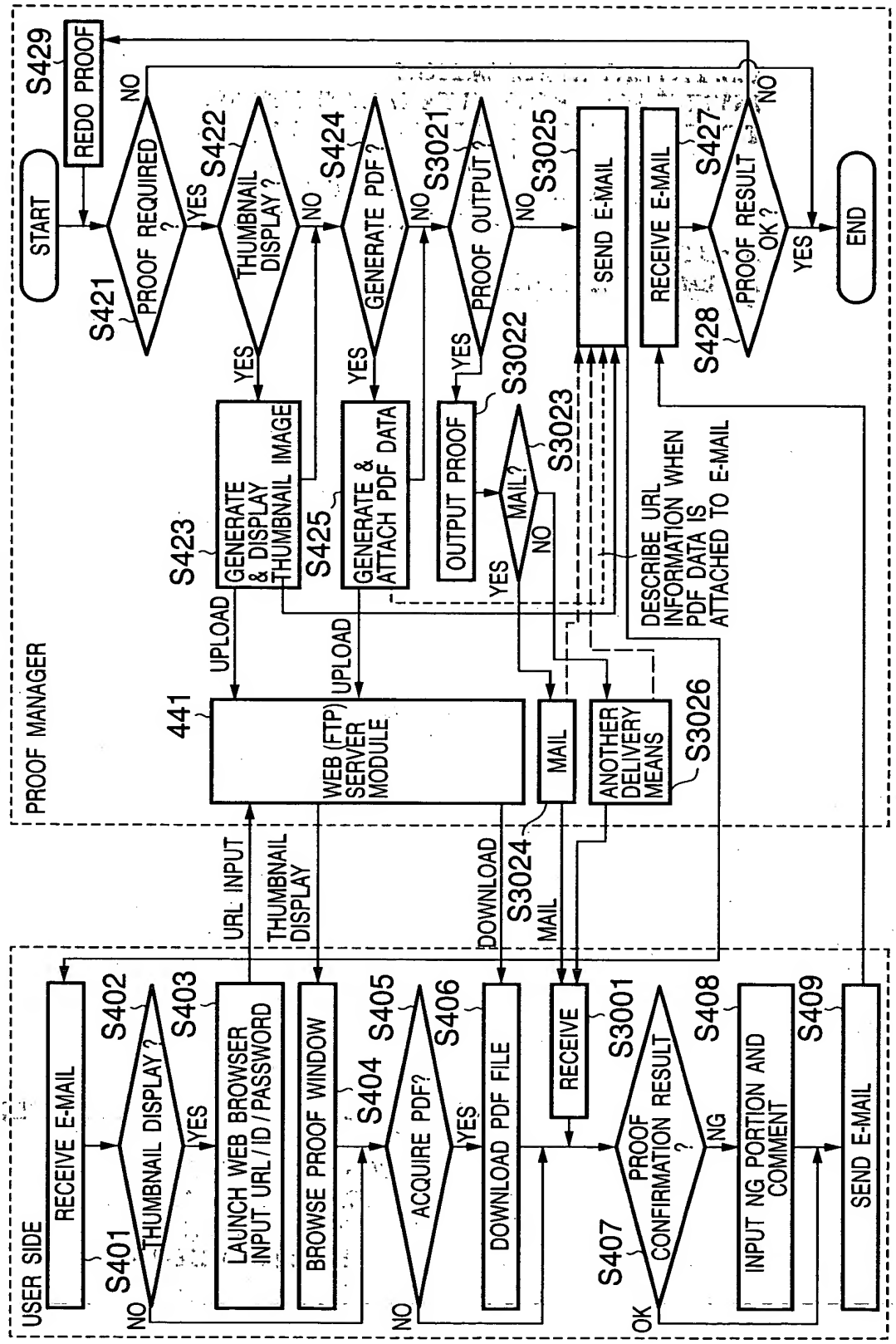

PROOF MANAGER
START
S429
REDO PROOF
S421
PROOF REQUIRED ?
NO
YES
S422
THUMBNAIL DISPLAY ?
NO
YES
S424
GENERATE PDF ?
NO
YES
S3021
PROOF OUTPUT ?
NO
YES
S3025
SEND E-MAIL
RECEIVE E-MAIL
S427
S428
PROOF RESULT OK ?
NO
YES
END
S423
GENERATE & DISPLAY THUMBNAIL IMAGE
S425
GENERATE & ATTACH PDF DATA
S3022
OUTPUT PROOF
S3023
MAIL ?
YES
NO
DESCRIBE URL INFORMATION WHEN PDF DATA IS ATTACHED TO E-MAIL
UPLOAD
UPLOAD
441
WEB (FTP) SERVER MODULE
MAIL
ANOTHER DELIVERY MEANS
S3026
URL INPUT
THUMBNAIL DISPLAY
DOWNLOAD
S3024
MAIL
USER SIDE
RECEIVE E-MAIL
S401
S402
THUMBNAIL DISPLAY ?
NO
YES
S403
LAUNCH WEB BROWSER INPUT URL / ID / PASSWORD
BROWSE PROOF WINDOW
S404
S405
ACQUIRE PDF?
NO
YES
S406
DOWNLOAD PDF FILE
RECEIVE
S3001
S407
PROOF CONFIRMATION RESULT ?
OK
NG
S408
INPUT NG PORTION AND COMMENT
S409
SEND E-MAIL

FIG. 39

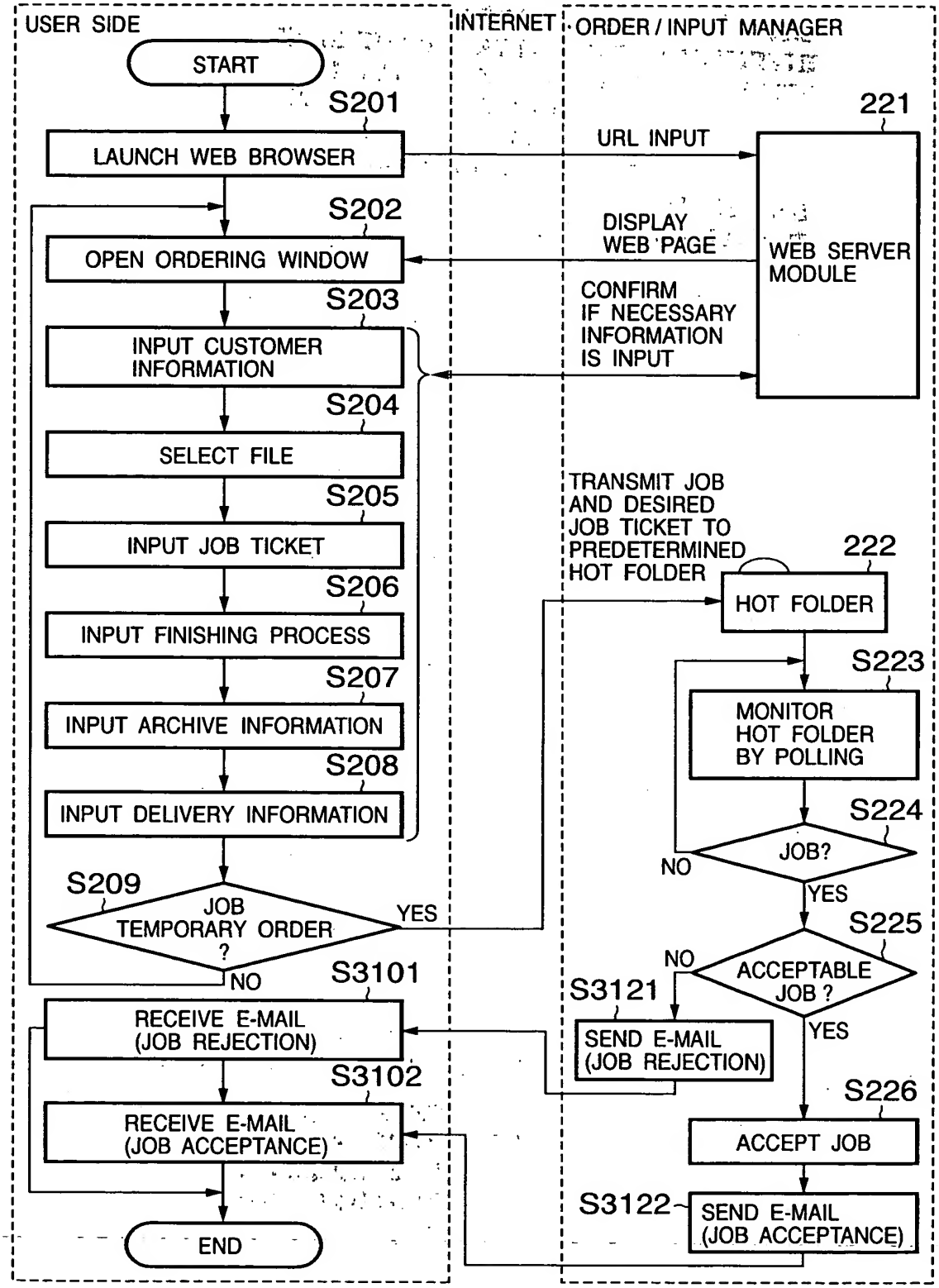

USER SIDE
INTERNET
ORDER / INPUT MANAGER
START
S201
LAUNCH WEB BROWSER
URL INPUT
221
WEB SERVER MODULE
S202
OPEN ORDERING WINDOW
DISPLAY WEB PAGE
S203
INPUT CUSTOMER INFORMATION
CONFIRM IF NECESSARY INFORMATION IS INPUT
S204
SELECT FILE
S205
INPUT JOB TICKET
S206
INPUT FINISHING PROCESS
S207
INPUT ARCHIVE INFORMATION
S208
INPUT DELIVERY INFORMATION
TRANSMIT JOB AND DESIRED JOB TICKET TO PREDETERMINED HOT FOLDER
222
HOT FOLDER
S223
MONITOR HOT FOLDER BY POLLING
S224
JOB?
NO
YES
S209
JOB TEMPORARY ORDER ?
YES
NO
S225
ACCEPTABLE JOB ?
NO
YES
S3101
RECEIVE E-MAIL (JOB REJECTION)
S3121
SEND E-MAIL (JOB REJECTION)
S3102
RECEIVE E-MAIL (JOB ACCEPTANCE)
S226
ACCEPT JOB
S3122
SEND E-MAIL (JOB ACCEPTANCE)
END

FIG. 40

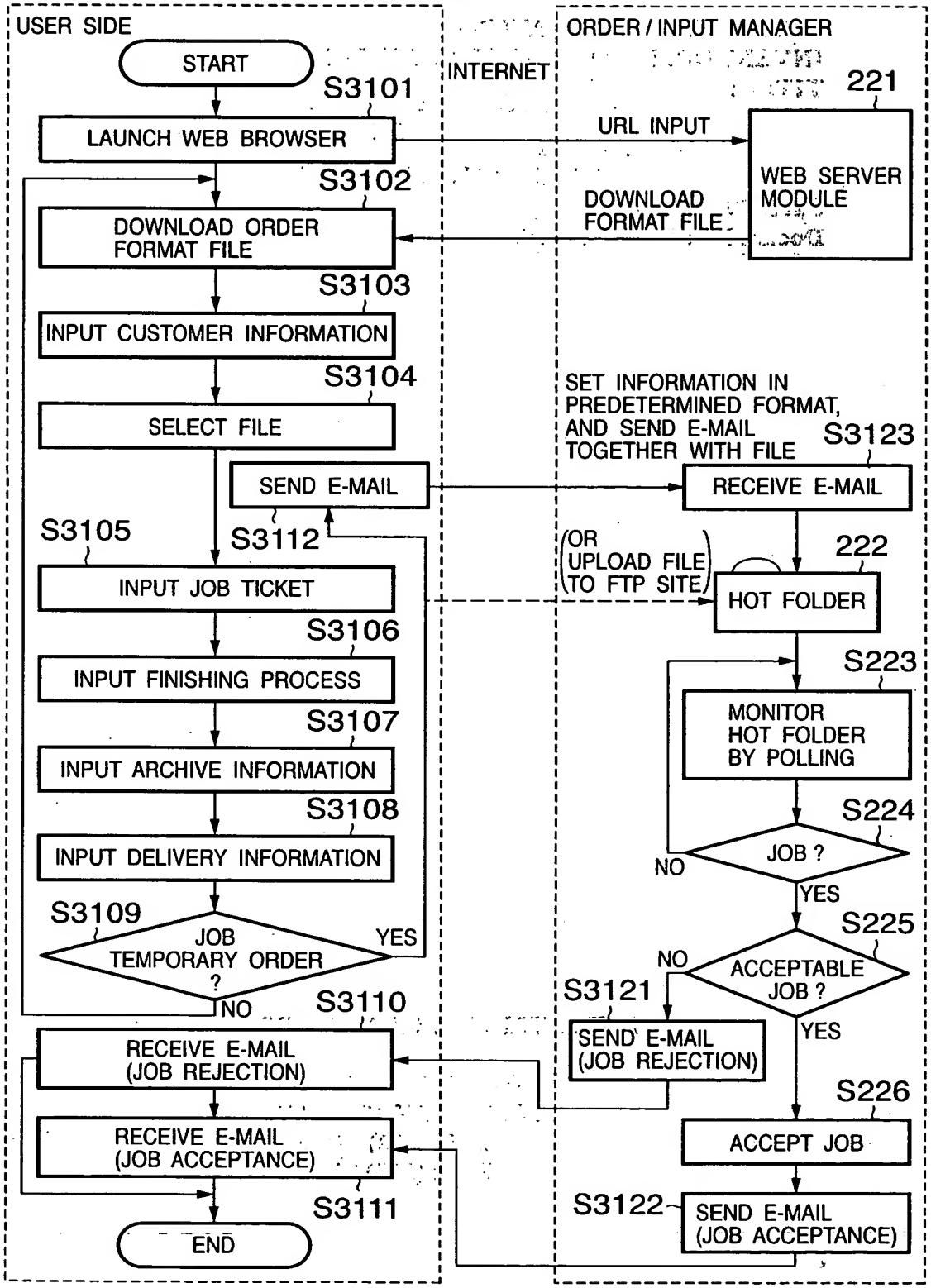

USER SIDE
START
S3101
LAUNCH WEB BROWSER
S3102
DOWNLOAD ORDER FORMAT FILE
S3103
INPUT CUSTOMER INFORMATION
S3104
SELECT FILE
SEND E-MAIL
S3112
S3105
INPUT JOB TICKET
S3106
INPUT FINISHING PROCESS
S3107
INPUT ARCHIVE INFORMATION
S3108
INPUT DELIVERY INFORMATION
S3109
JOB TEMPORARY ORDER ?
YES
NO
S3110
RECEIVE E-MAIL (JOB REJECTION)
RECEIVE E-MAIL (JOB ACCEPTANCE)
S3111
END
INTERNET
ORDER / INPUT MANAGER
221
URL INPUT
WEB SERVER MODULE
DOWNLOAD FORMAT FILE
SET INFORMATION IN PREDETERMINED FORMAT, AND SEND E-MAIL TOGETHER WITH FILE
S3123
RECEIVE E-MAIL
(OR UPLOAD FILE TO FTP SITE)
222
HOT FOLDER
S223
MONITOR HOT FOLDER BY POLLING
S224
JOB ?
NO
YES
S225
ACCEPTABLE JOB ?
NO
YES
S3121
SEND E-MAIL (JOB REJECTION)
S226
ACCEPT JOB
S3122
SEND E-MAIL (JOB ACCEPTANCE)

FIG. 41

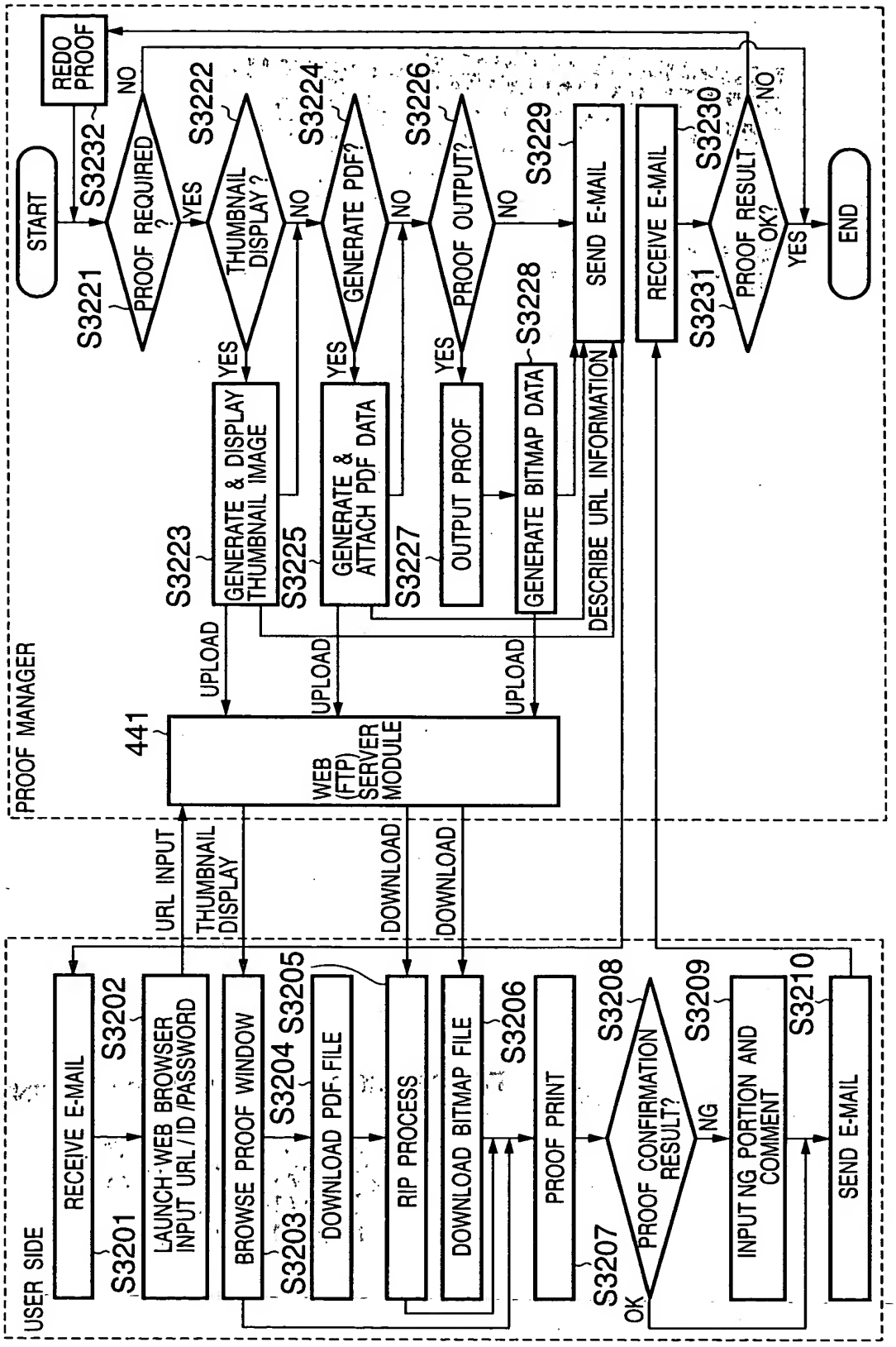

PROOF MANAGER
START
S3232
REDO PROOF
S3221
PROOF REQUIRED ?
NO
YES
S3222
THUMBNAIL DISPLAY ?
NO
YES
S3224
GENERATE PDF?
NO
YES
S3226
PROOF OUTPUT?
NO
YES
S3229
SEND E-MAIL
RECEIVE E-MAIL
S3230
PROOF RESULT OK?
NO
YES
S3231
END
S3223
GENERATE & DISPLAY THUMBNAIL IMAGE
S3225
GENERATE & ATTACH PDF DATA
S3227
OUTPUT PROOF
S3228
GENERATE BITMAP DATA
DESCRIBE URL INFORMATION
UPLOAD
UPLOAD
UPLOAD
441
WEB (FTP) SERVER MODULE
URL INPUT
THUMBNAIL DISPLAY
DOWNLOAD
DOWNLOAD
USER SIDE
S3201
RECEIVE E-MAIL
S3202
LAUNCH WEB BROWSER INPUT URL / ID /PASSWORD
S3203
BROWSE PROOF WINDOW
S3204
S3205
DOWNLOAD PDF FILE
RIP PROCESS
DOWNLOAD BITMAP FILE
S3206
PROOF PRINT
S3207
S3208
PROOF CONFIRMATION RESULT?
OK
NG
S3209
INPUT NG PORTION AND COMMENT
S3210
SEND E-MAIL

FIG. 42

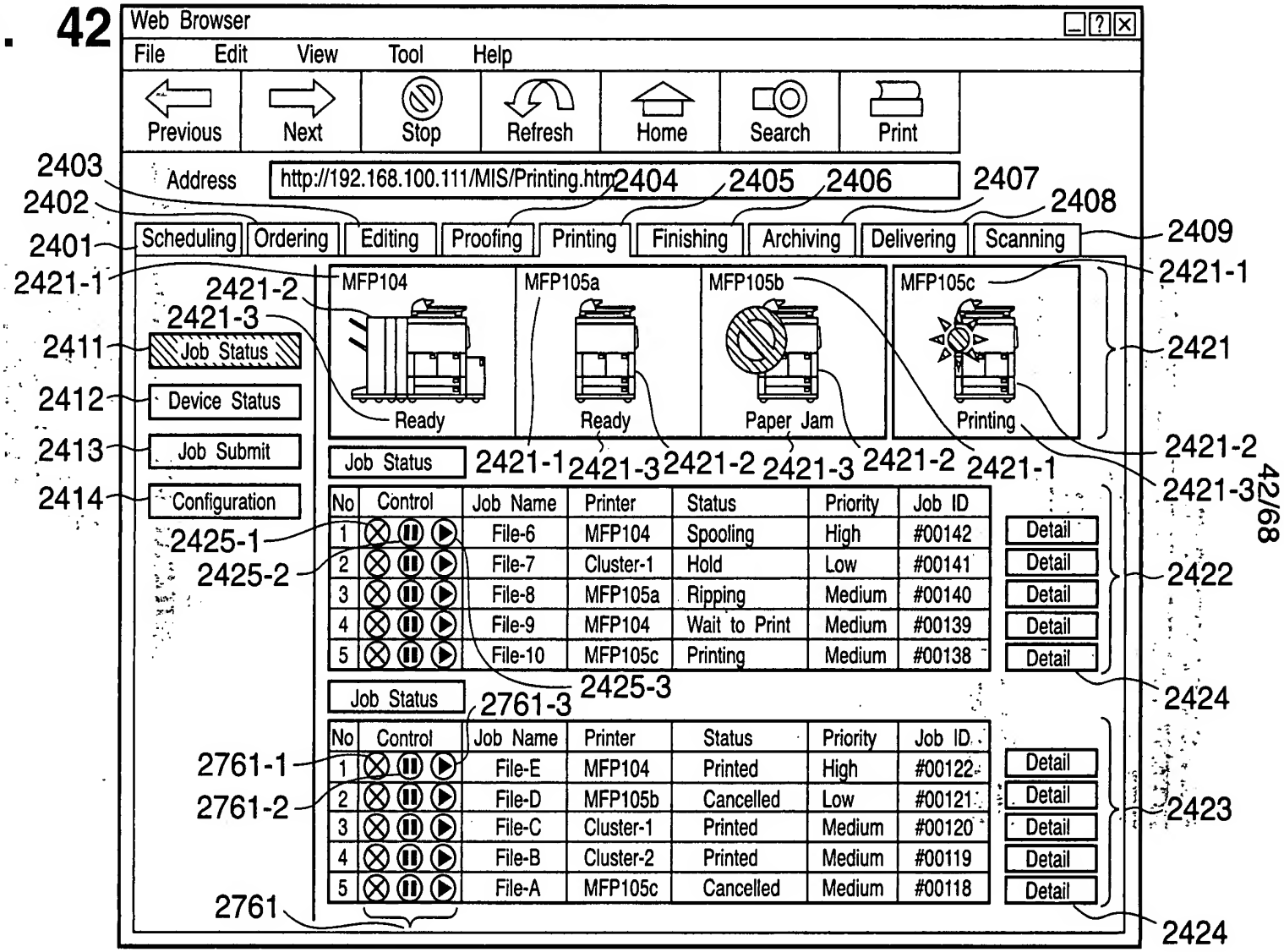

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://192.168.100.111/MIS/Printing.htm
Scheduling Ordering Editing Proofing Printing Finishing Archiving Delivering Scanning
Job Status
Device Status
Job Submit
Configuration
MFP104 Ready
MFP105a Ready
MFP105b Paper Jam
MFP105c Printing
Job Status
No Control Job Name Printer Status Priority Job ID
1 File-6 MFP104 Spooling High #00142 Detail
2 File-7 Cluster-1 Hold Low #00141 Detail
3 File-8 MFP105a Ripping Medium #00140 Detail
4 File-9 MFP104 Wait to Print Medium #00139 Detail
5 File-10 MFP105c Printing Medium #00138 Detail
Job Status
No Control Job Name Printer Status Priority Job ID
1 File-E MFP104 Printed High #00122 Detail
2 File-D MFP105b Cancelled Low #00121 Detail
3 File-C Cluster-1 Printed Medium #00120 Detail
4 File-B Cluster-2 Printed Medium #00119 Detail
5 File-A MFP105c Cancelled Medium #00118 Detail
2403
2402
2401
2421-1
2421-2
2421-3
2411
2412
2413
2414
2425-1
2425-2
2425-3
2761-3
2761-1
2761-2
2761
2404
2405
2406
2407
2408
2409
2421
2422
2423
2424

FIG. 43

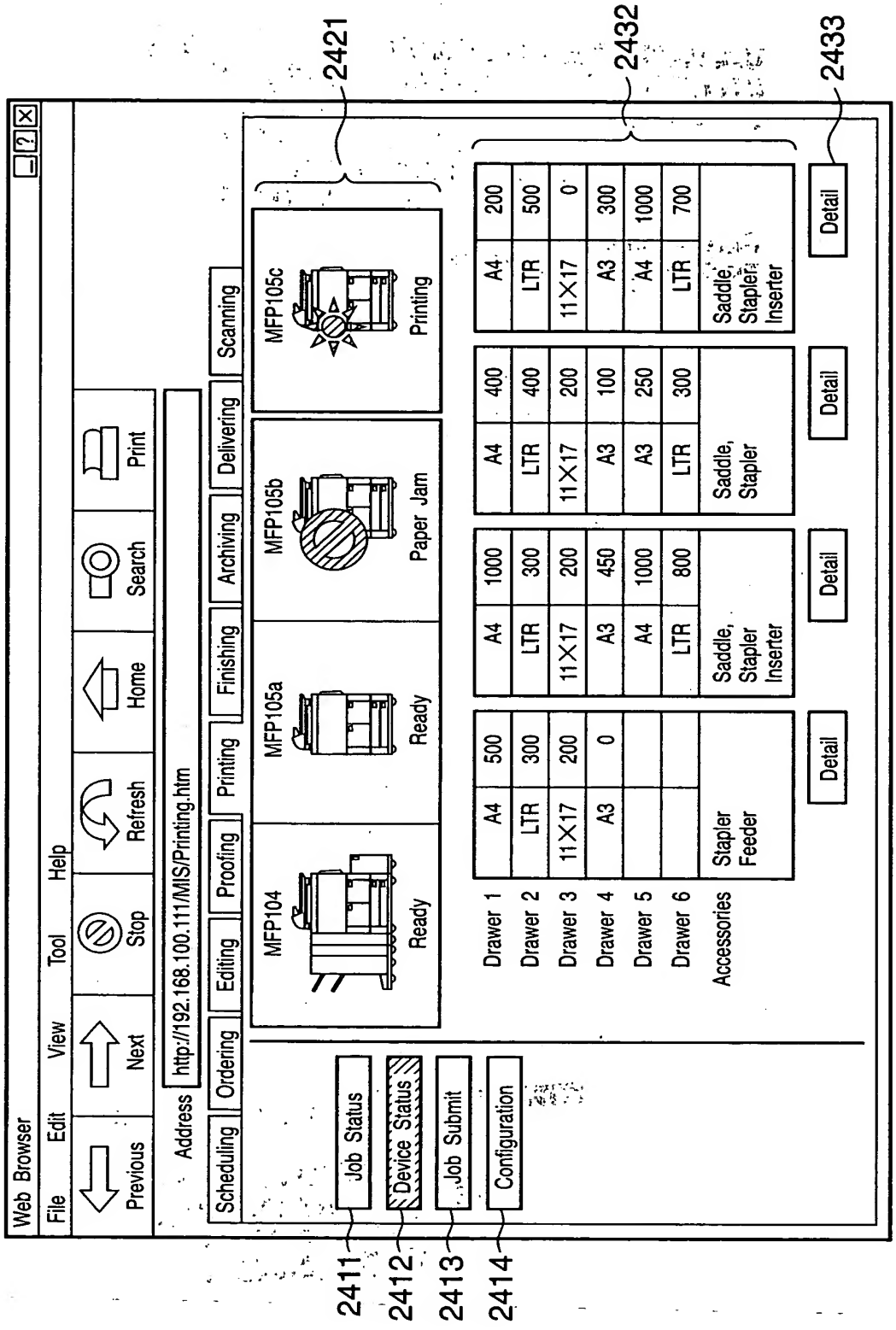

Web Browser
File Edit View Tool Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://192.168.100.111/MIS/Printing.htm
Scheduling
Ordering
Editing
Proofing
Printing
Finishing
Archiving
Delivering
Scanning
Job Status
Device Status
Job Submit
Configuration
2411
2412
2413
2414
MFP104
Ready
MFP105a
Ready
MFP105b
Paper Jam
MFP105c
Printing
2421
Drawer 1
Drawer 2
Drawer 3
Drawer 4
Drawer 5
Drawer 6
Accessories
A4 500
LTR 300
11×17 200
A3 0
Stapler Feeder
A4 1000
LTR 300
11×17 200
A3 450
A4 1000
LTR 800
Saddle, Stapler Inserter
A4 400
LTR 400
11×17 200
A3 100
A3 250
LTR 300
Saddle, Stapler
A4 200
LTR 500
11×17 0
A3 300
A4 1000
LTR 700
Saddle, Stapler Inserter
2432
Detail
Detail
Detail
Detail
2433

FIG. 44

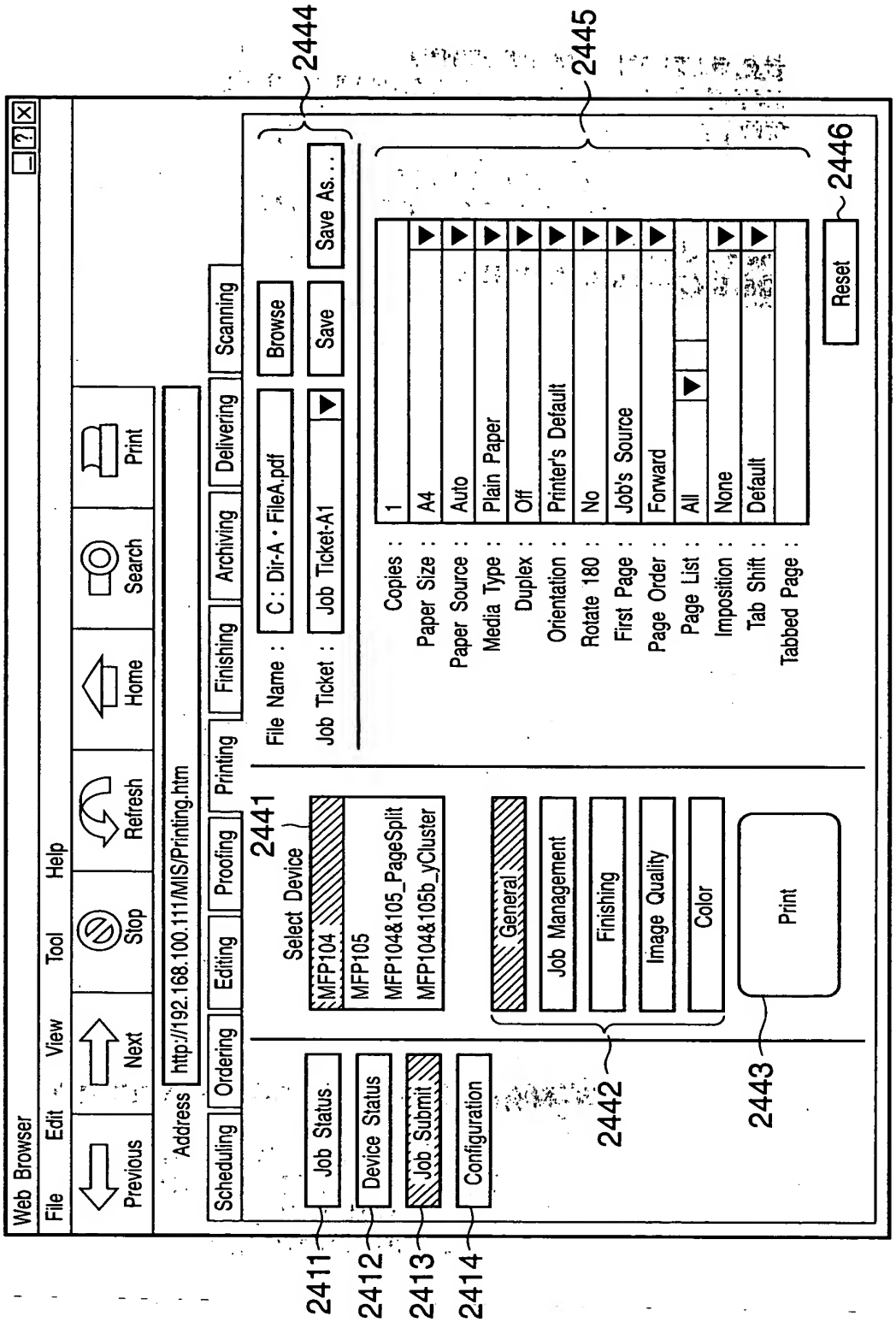

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://192.168.100.111/MIS/Printing.htm
Scheduling Ordering Editing Proofing Printing Finishing Archiving Delivering Scanning
Job Status.
Device Status
Job Submit
Configuration
2411
2412
2413
2414
Select Device
2441
MFP104
MFP105
MFP104&105_PageSplit
MFP104&105b_yCluster
General
Job Management
Finishing
Image Quality
Color
2442
Print
2443
File Name : C : Dir-A • FileA.pdf Browse
Job Ticket : Job Ticket-A1 Save Save As...
2444
2445
Copies : 1
Paper Size : A4
Paper Source : Auto
Media Type : Plain Paper
Duplex : Off
Orientation : Printer's Default
Rotate 180 : No
First Page : Job's Source
Page Order : Forward
Page List : All
Imposition : None
Tab Shift : Default
Tabbed Page :
Reset
2446

FIG. 45

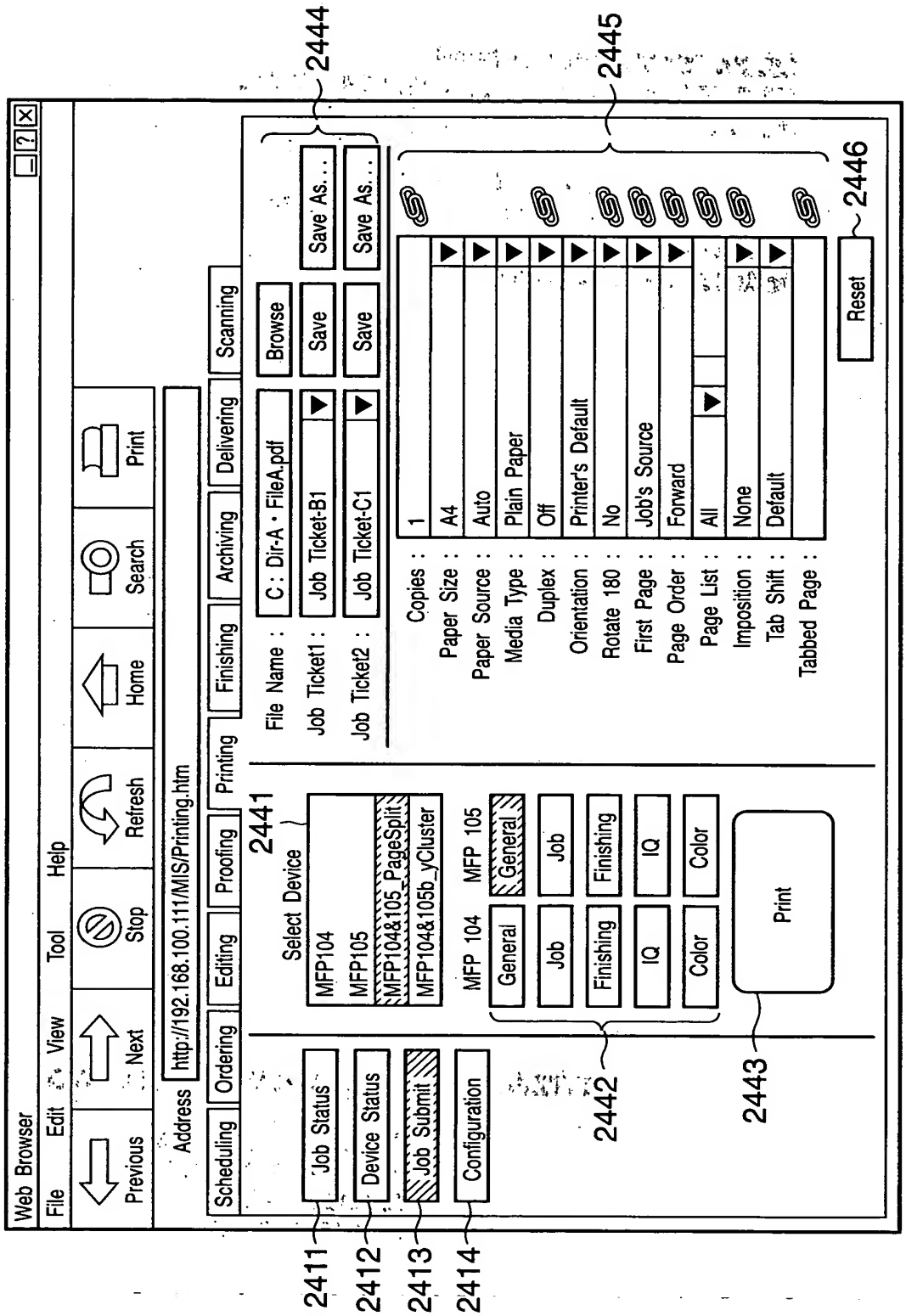

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://192.168.100.111/MIS/Printing.htm
Scheduling Ordering Editing Proofing Printing Finishing Archiving Delivering Scanning
Job Status
Device Status
Job Submit
Configuration
2411
2412
2413
2414
Select Device
2441
MFP104
MFP105
MFP104&105_PageSplit
MFP104&105b_yCluster
MFP 104 MFP 105
General General
Job Job
Finishing Finishing
IQ IQ
Color Color
2442
Print
2443
File Name : C: Dir-A • FileA.pdf Browse
Job Ticket1 : Job Ticket-B1 Save Save As...
Job Ticket2 : Job Ticket-C1 Save Save As...
2444
Copies : 1
Paper Size : A4
Paper Source : Auto
Media Type : Plain Paper
Duplex : Off
Orientation : Printer's Default
Rotate 180 : No
First Page : Job's Source
Page Order : Forward
Page List : All
Imposition : None
Tab Shift : Default
Tabbed Page :
2445
Reset
2446

FIG. 46

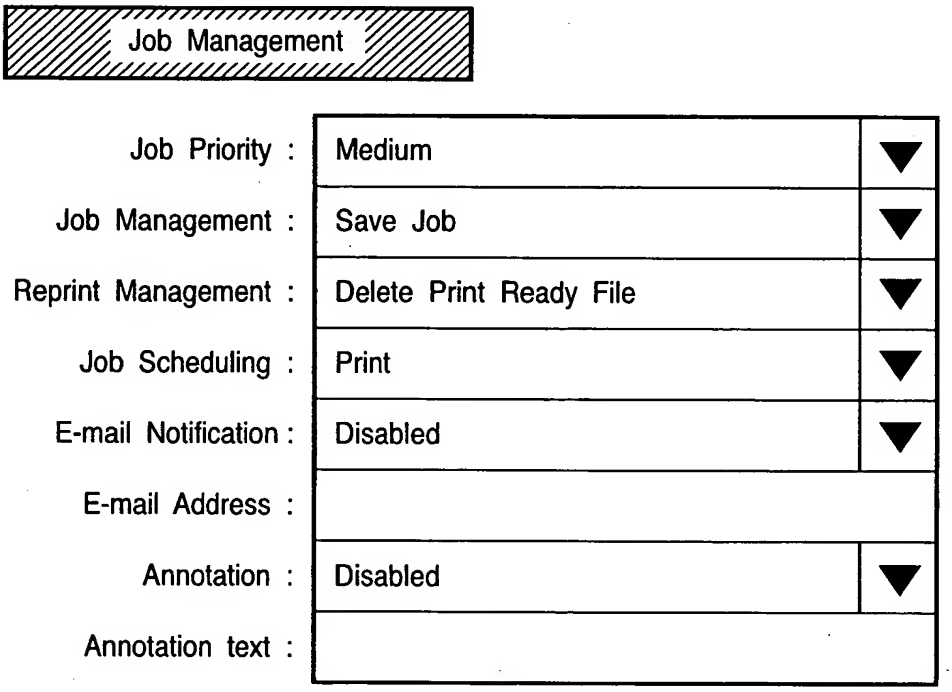

Job Management
Job Priority :
Medium
Job Management :
Save Job
Reprint Management :
Delete Print Ready File
Job Scheduling :
Print
E-mail Notification :
Disabled
E-mail Address :
Annotation :
Disabled
Annotation text :

FIG. 47

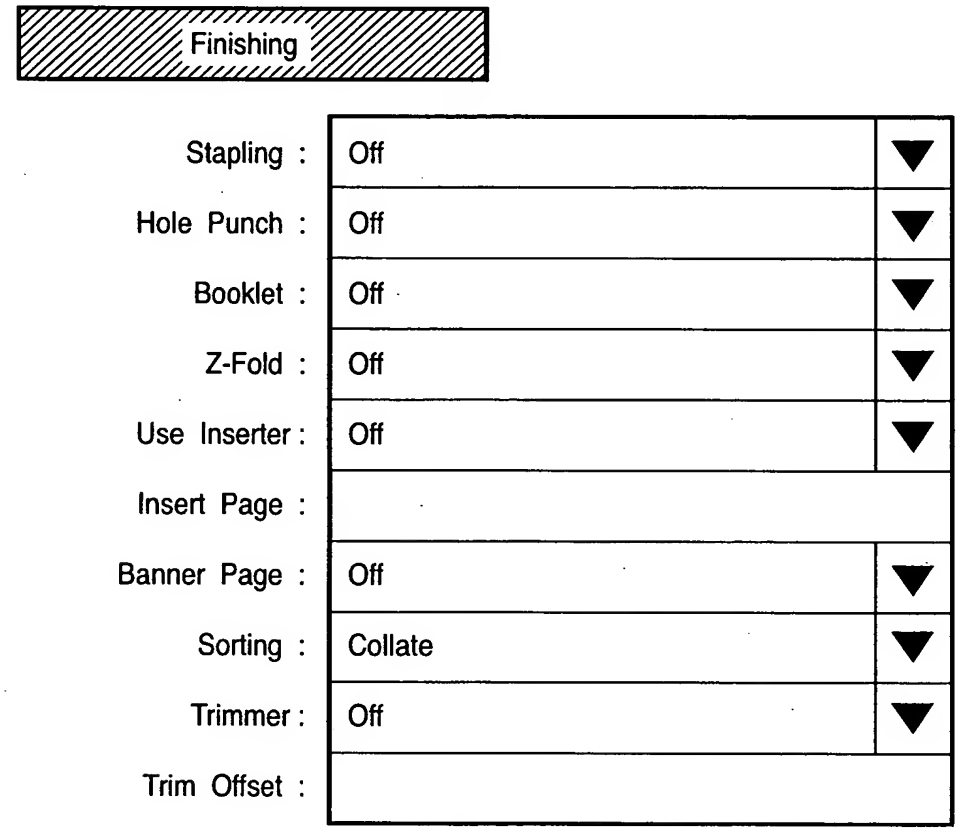

Finishing
Stapling :
Off
Hole Punch :
Off
Booklet :
Off
Z-Fold :
Off
Use Inserter :
Off
Insert Page :
Banner Page :
Off
Sorting :
Collate
Trimmer :
Off
Trim Offset :

FIG. 48

Image Quality

Sharpness :	Normal
Brightness :	Normal
Color Mode :	CMYK
Toner Reduction :	Off
Copier Mode :	Character
Gloss Adjustment :	Standard
Pure Black Text/Graphics :	Off
Gloss Adjustment :	Off
Force Black Overprint :	Off
Gradation Smoothing :	Off
Combine Separation :	Off
Bits Per Pixel :	8

FIG. 49

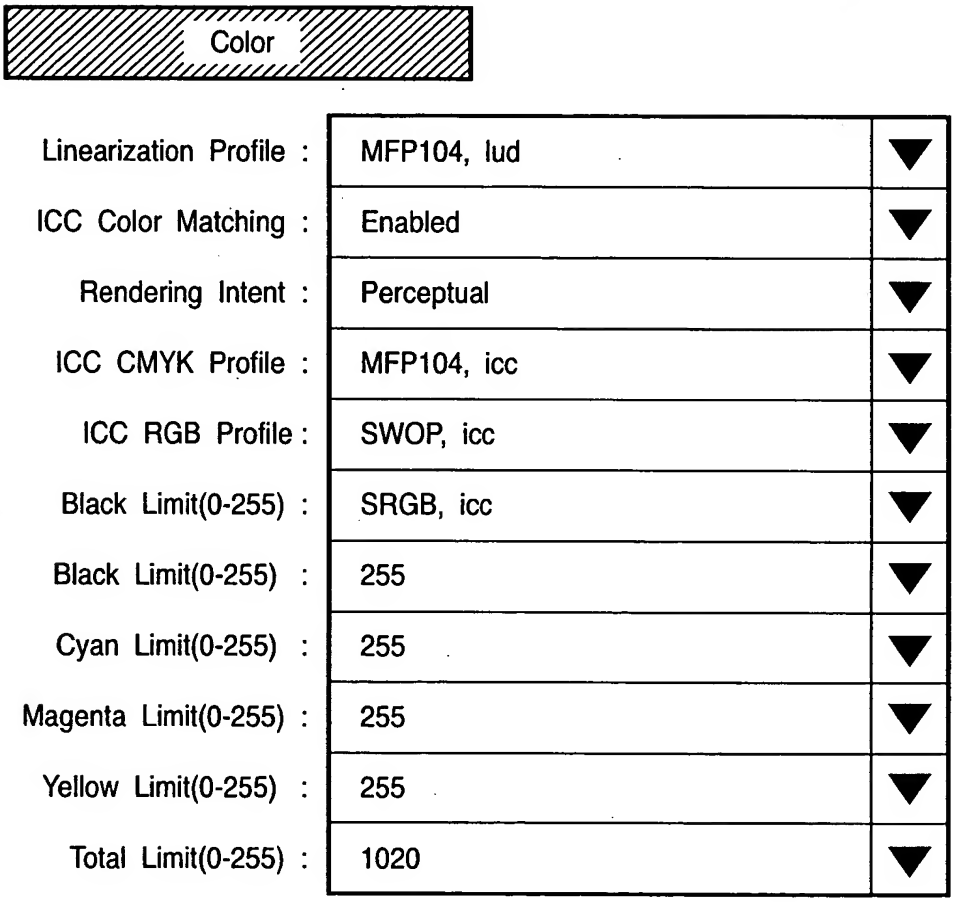

Color
Linearization Profile :
MFP104, lud
ICC Color Matching :
Enabled
Rendering Intent :
Perceptual
ICC CMYK Profile :
MFP104, icc
ICC RGB Profile :
SWOP, icc
Black Limit(0-255) :
SRGB, icc
Black Limit(0-255) :
255
Cyan Limit(0-255) :
255
Magenta Limit(0-255) :
255
Yellow Limit(0-255) :
255
Total Limit(0-255) :
1020

FIG. 50

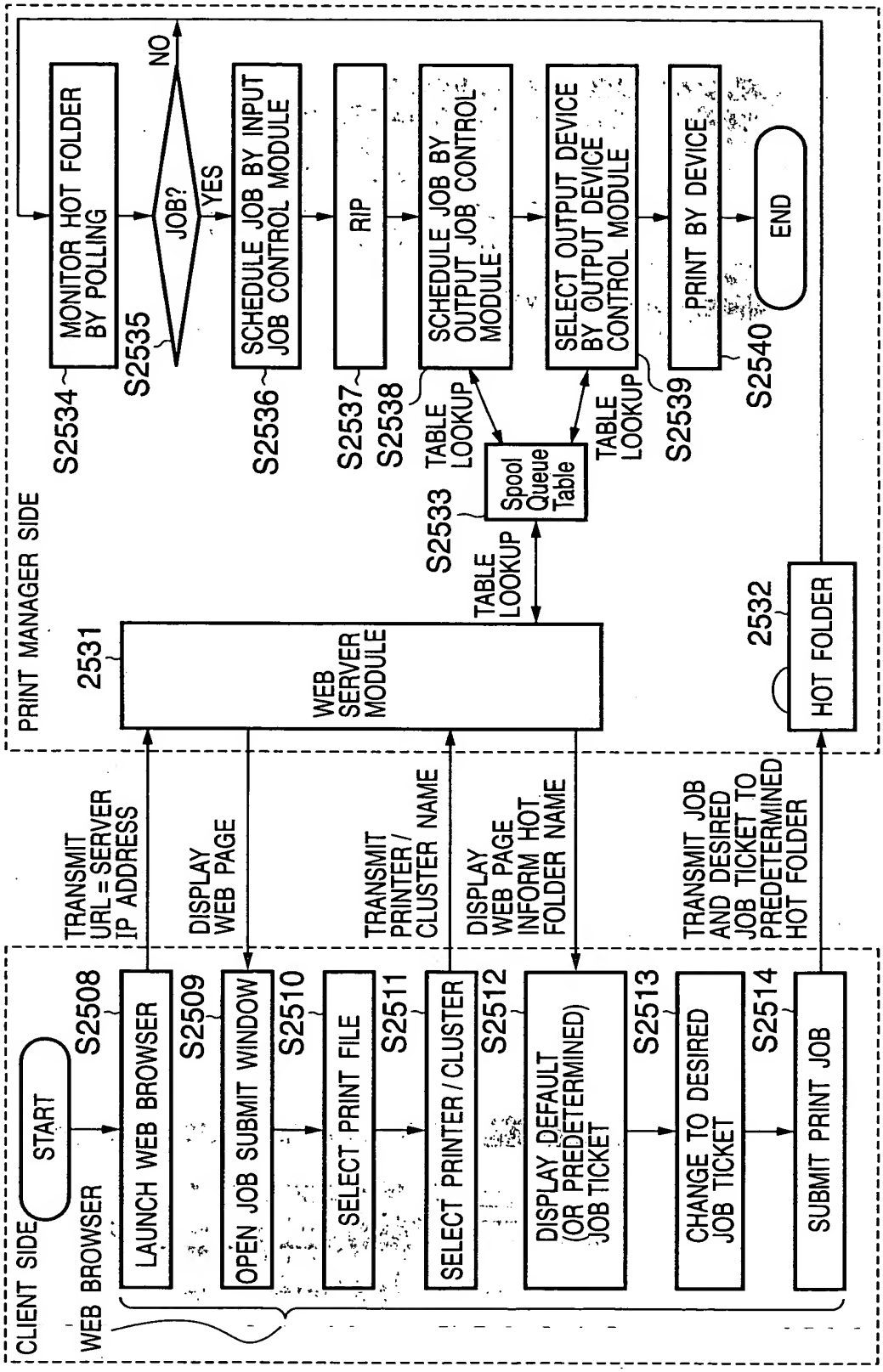

CLIENT SIDE
WEB BROWSER
START
S2508
LAUNCH WEB BROWSER
S2509
OPEN JOB SUBMIT WINDOW
S2510
SELECT PRINT FILE
S2511
SELECT PRINTER / CLUSTER
S2512
DISPLAY DEFAULT (OR PREDETERMINED) JOB TICKET
S2513
CHANGE TO DESIRED JOB TICKET
S2514
SUBMIT PRINT JOB
TRANSMIT URL = SERVER IP ADDRESS
DISPLAY WEB PAGE
TRANSMIT PRINTER / CLUSTER NAME
DISPLAY WEB PAGE INFORM HOT FOLDER NAME
TRANSMIT JOB AND DESIRED JOB TICKET TO PREDETERMINED HOT FOLDER
PRINT MANAGER SIDE
2531
WEB SERVER MODULE
TABLE LOOKUP
S2533
Spool Queue Table
TABLE LOOKUP
TABLE LOOKUP
2532
HOT FOLDER
S2534
MONITOR HOT FOLDER BY POLLING
S2535
JOB?
NO
YES
S2536
SCHEDULE JOB BY INPUT JOB CONTROL MODULE
S2537
RIP
S2538
SCHEDULE JOB BY OUTPUT JOB CONTROL MODULE
S2539
SELECT OUTPUT DEVICE BY OUTPUT DEVICE CONTROL MODULE
S2540
PRINT BY DEVICE
END

FIG. 51

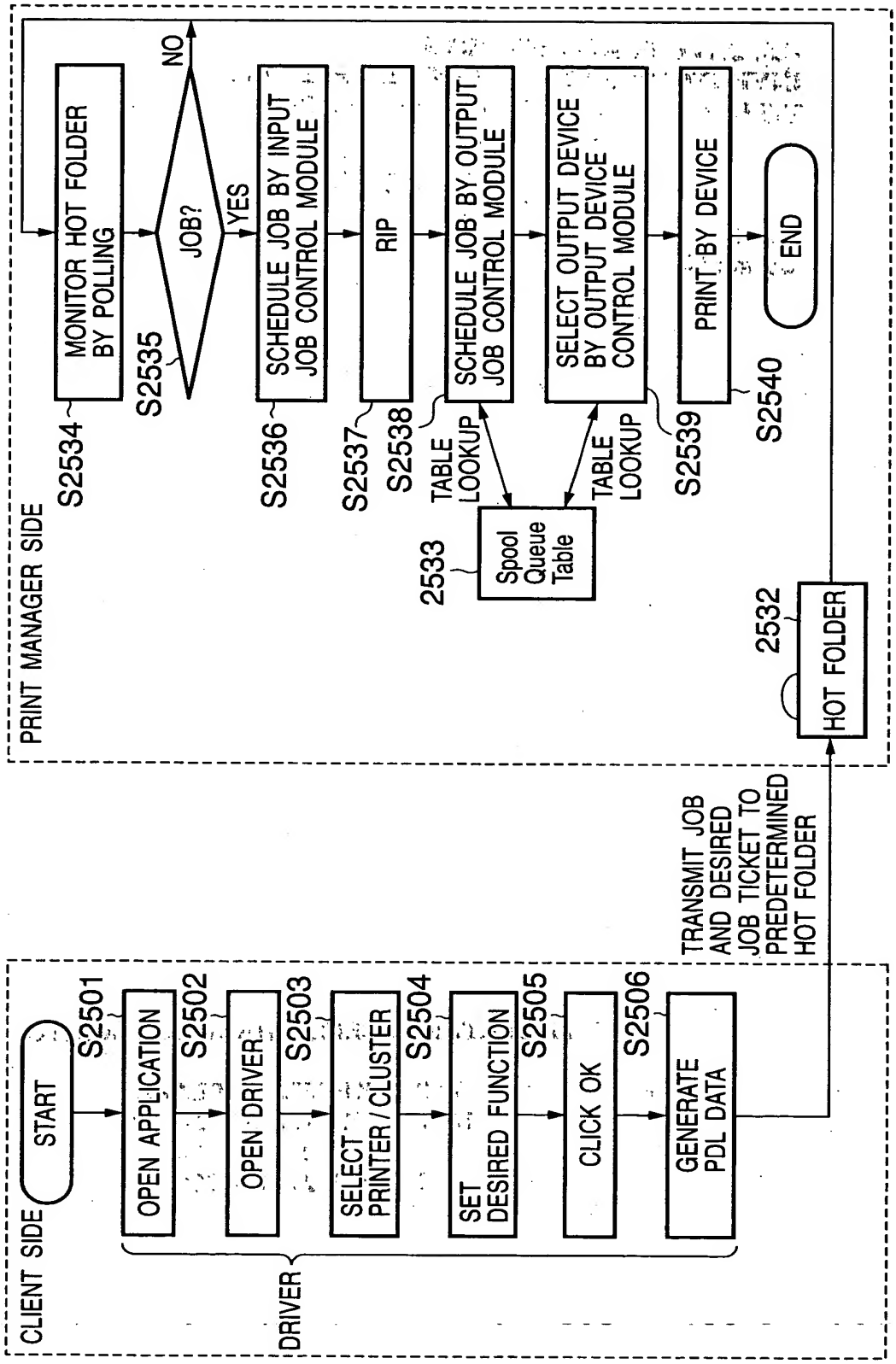

CLIENT SIDE
START
S2501
OPEN APPLICATION
S2502
OPEN DRIVER
S2503
SELECT PRINTER / CLUSTER
S2504
SET DESIRED FUNCTION
S2505
CLICK OK
S2506
GENERATE PDL DATA
DRIVER
TRANSMIT JOB AND DESIRED JOB TICKET TO PREDETERMINED HOT FOLDER
PRINT MANAGER SIDE
HOT FOLDER
2532
MONITOR HOT FOLDER BY POLLING
S2534
JOB?
S2535
NO
YES
SCHEDULE JOB BY INPUT JOB CONTROL MODULE
S2536
RIP
S2537
SCHEDULE JOB BY OUTPUT JOB CONTROL MODULE
S2538
TABLE LOOKUP
Spool Queue Table
2533
SELECT OUTPUT DEVICE BY OUTPUT DEVICE CONTROL MODULE
S2539
TABLE LOOKUP
PRINT BY DEVICE
S2540
END

FIG. 52

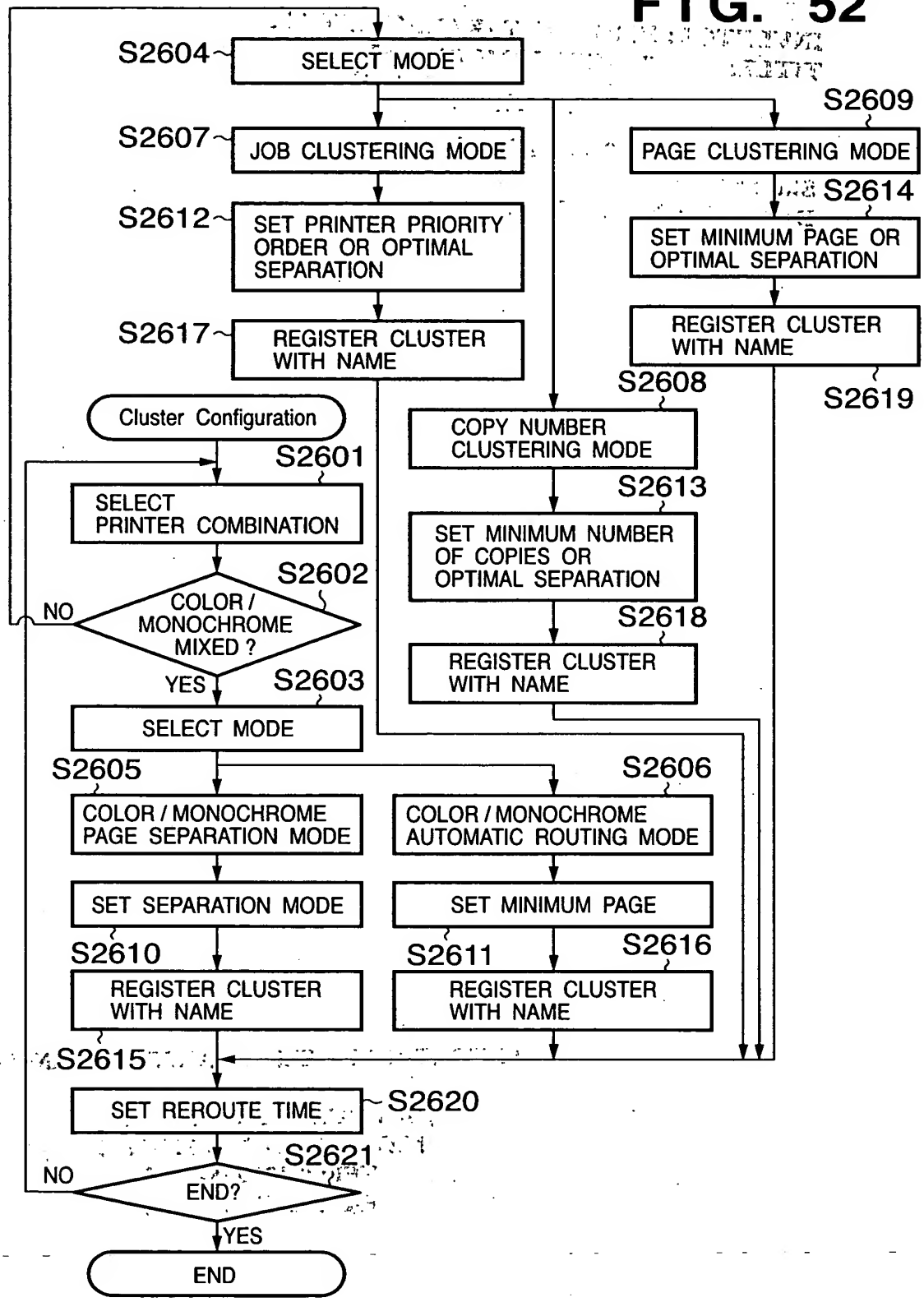

S2604
SELECT MODE
S2607
JOB CLUSTERING MODE
S2612
SET PRINTER PRIORITY ORDER OR OPTIMAL SEPARATION
S2617
REGISTER CLUSTER WITH NAME
S2609
PAGE CLUSTERING MODE
S2614
SET MINIMUM PAGE OR OPTIMAL SEPARATION
REGISTER CLUSTER WITH NAME
S2619
S2608
COPY NUMBER CLUSTERING MODE
S2613
SET MINIMUM NUMBER OF COPIES OR OPTIMAL SEPARATION
S2618
REGISTER CLUSTER WITH NAME
Cluster Configuration
S2601
SELECT PRINTER COMBINATION
S2602
COLOR / MONOCHROME MIXED ?
NO
YES
S2603
SELECT MODE
S2605
COLOR / MONOCHROME PAGE SEPARATION MODE
SET SEPARATION MODE
S2610
REGISTER CLUSTER WITH NAME
S2606
COLOR / MONOCHROME AUTOMATIC ROUTING MODE
SET MINIMUM PAGE
S2611
S2616
REGISTER CLUSTER WITH NAME
S2615
SET REROUTE TIME
S2620
S2621
NO
END?
YES
END

FIG. 53

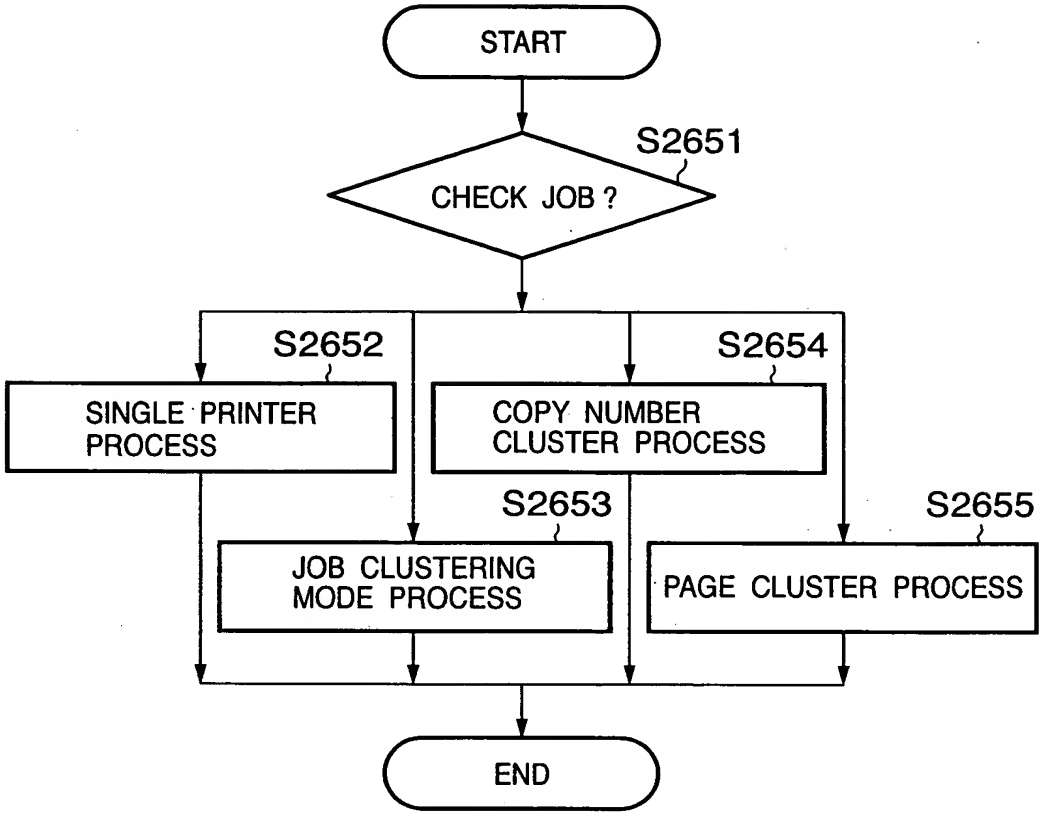

START
S2651
CHECK JOB ?
S2652
SINGLE PRINTER PROCESS
S2654
COPY NUMBER CLUSTER PROCESS
S2653
JOB CLUSTERING MODE PROCESS
S2655
PAGE CLUSTER PROCESS
END

FIG. 54

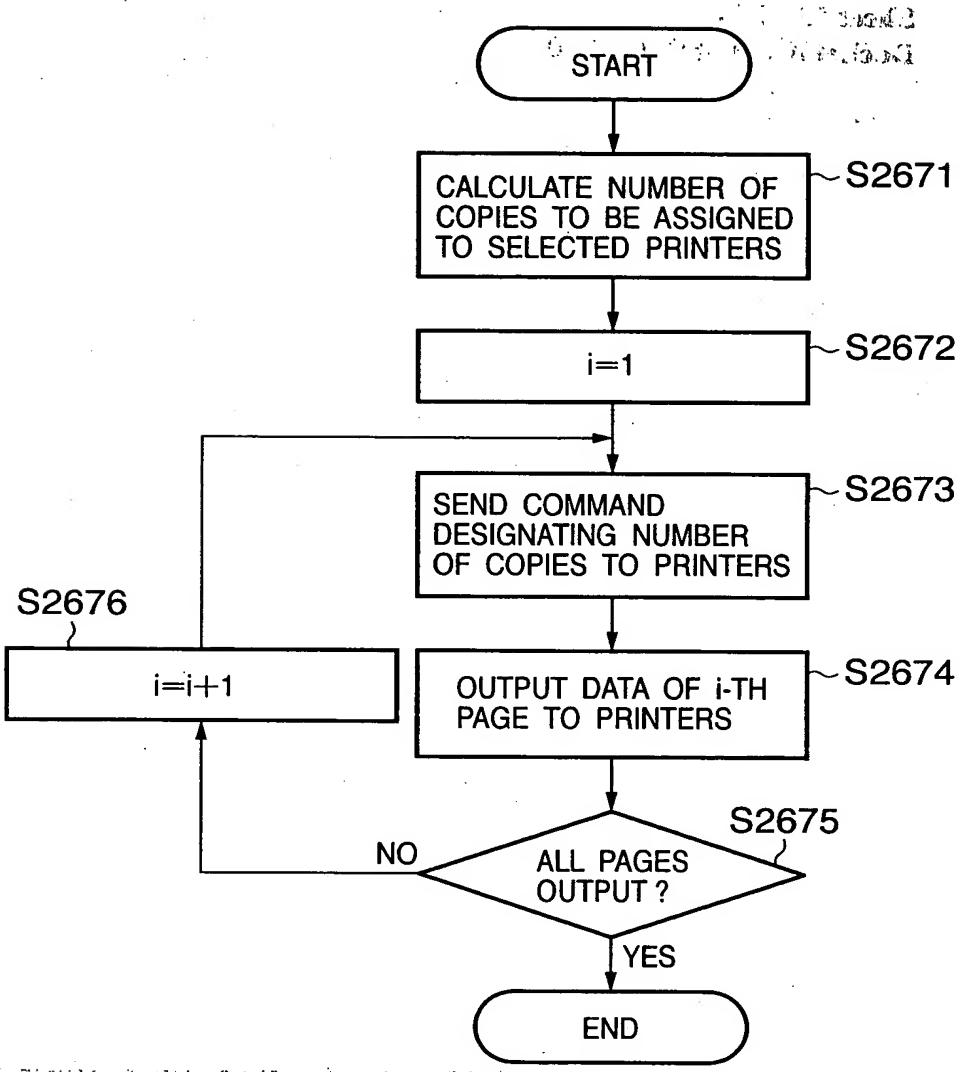

START
CALCULATE NUMBER OF COPIES TO BE ASSIGNED TO SELECTED PRINTERS
S2671
i=1
S2672
SEND COMMAND DESIGNATING NUMBER OF COPIES TO PRINTERS
S2673
OUTPUT DATA OF i-TH PAGE TO PRINTERS
S2674
ALL PAGES OUTPUT ?
S2675
NO
YES
i=i+1
S2676
END

FIG. 55

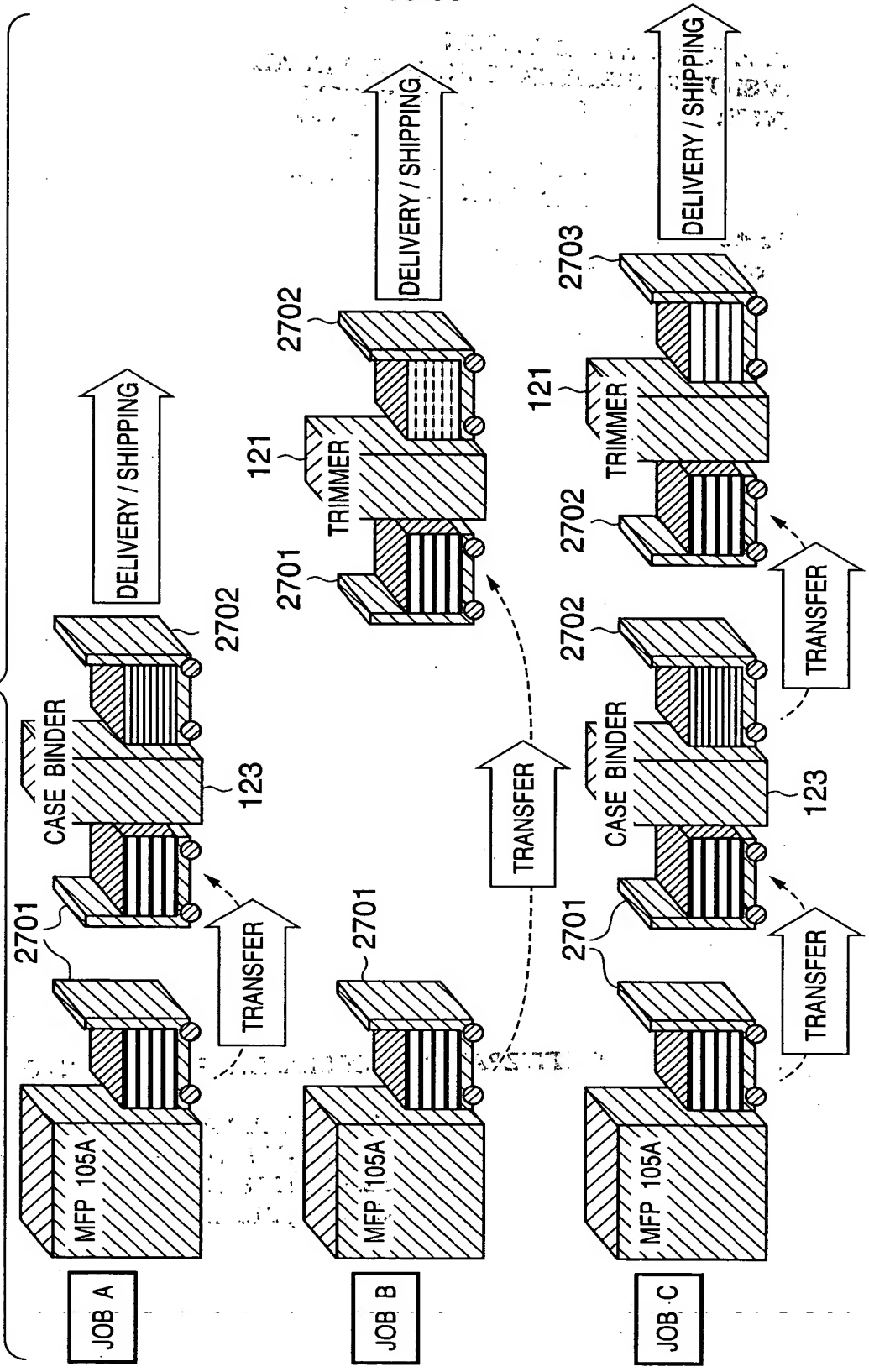

JOB A
JOB B
JOB C
MFP 105A
2701
2702
2703
CASE BINDER
123
TRIMMER
121
TRANSFER
DELIVERY / SHIPPING

FIG. 56

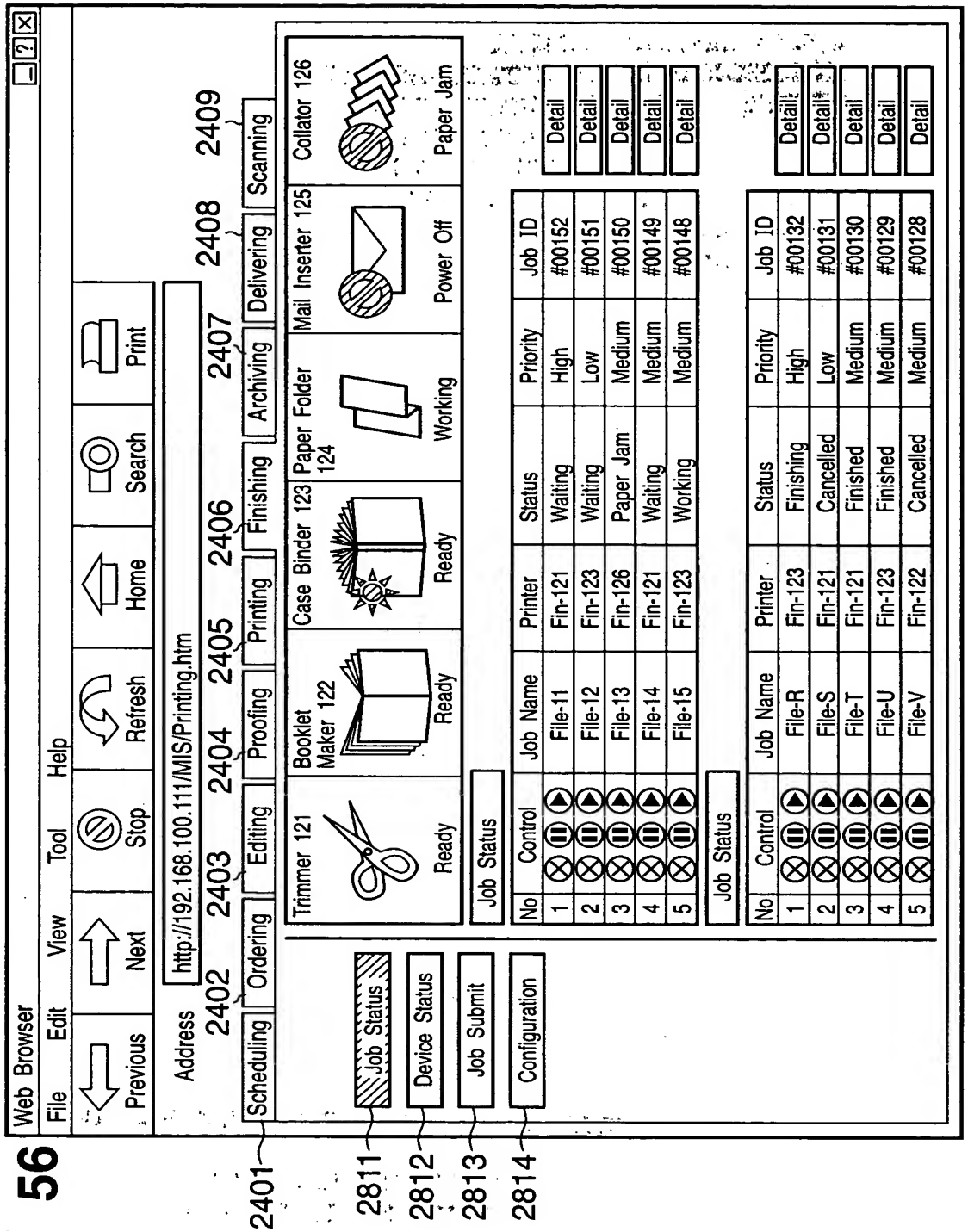

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://192.168.100.111/MIS/Printing.htm
2402 2403 2404 2405 2406 2407 2408 2409
Scheduling Ordering Editing Proofing Printing Finishing Archiving Delivering Scanning
Trimmer 121 Ready
Booklet Maker 122 Ready
Case Binder 123 Ready
Paper Folder 124 Working
Mail Inserter 125 Power Off
Collator 126 Paper Jam
Job Status
No Control Job Name Printer Status Priority Job ID
1 File-11 Fin-121 Waiting High #00152 Detail
2 File-12 Fin-123 Waiting Low #00151 Detail
3 File-13 Fin-126 Paper Jam Medium #00150 Detail
4 File-14 Fin-121 Waiting Medium #00149 Detail
5 File-15 Fin-123 Working Medium #00148 Detail
Job Status
No Control Job Name Printer Status Priority Job ID
1 File-R Fin-123 Finishing High #00132 Detail
2 File-S Fin-121 Cancelled Low #00131 Detail
3 File-T Fin-121 Finished Medium #00130 Detail
4 File-U Fin-123 Finished Medium #00129 Detail
5 File-V Fin-122 Cancelled Medium #00128 Detail
2401
Job Status 2811
Device Status 2812
Job Submit 2813
Configuration 2814

FIG. 57

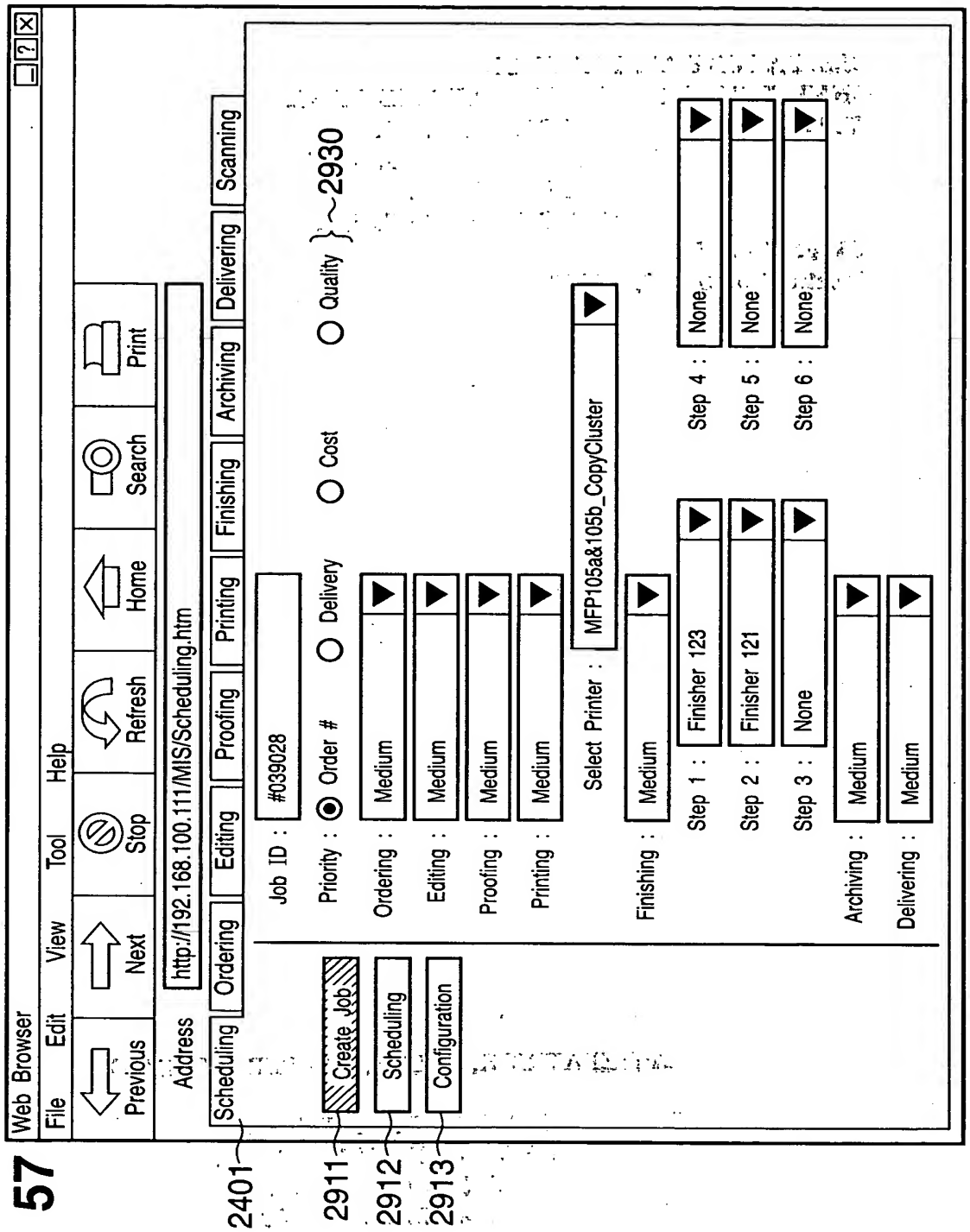

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://192.168.100.111/MIS/Scheduling.htm
Scheduling Ordering Editing Proofing Printing Finishing Archiving Delivering Scanning
2401
Create Job
Scheduling
Configuration
2911
2912
2913
Job ID : #039028
Priority : Order # Delivery Cost Quality
2930
Ordering : Medium
Editing : Medium
Proofing : Medium
Printing : Medium
Select Printer : MFP105a&105b_CopyCluster
Finishing : Medium
Step 1 : Finisher 123
Step 2 : Finisher 121
Step 3 : None
Step 4 : None
Step 5 : None
Step 6 : None
Archiving : Medium
Delivering : Medium

FIG. 58

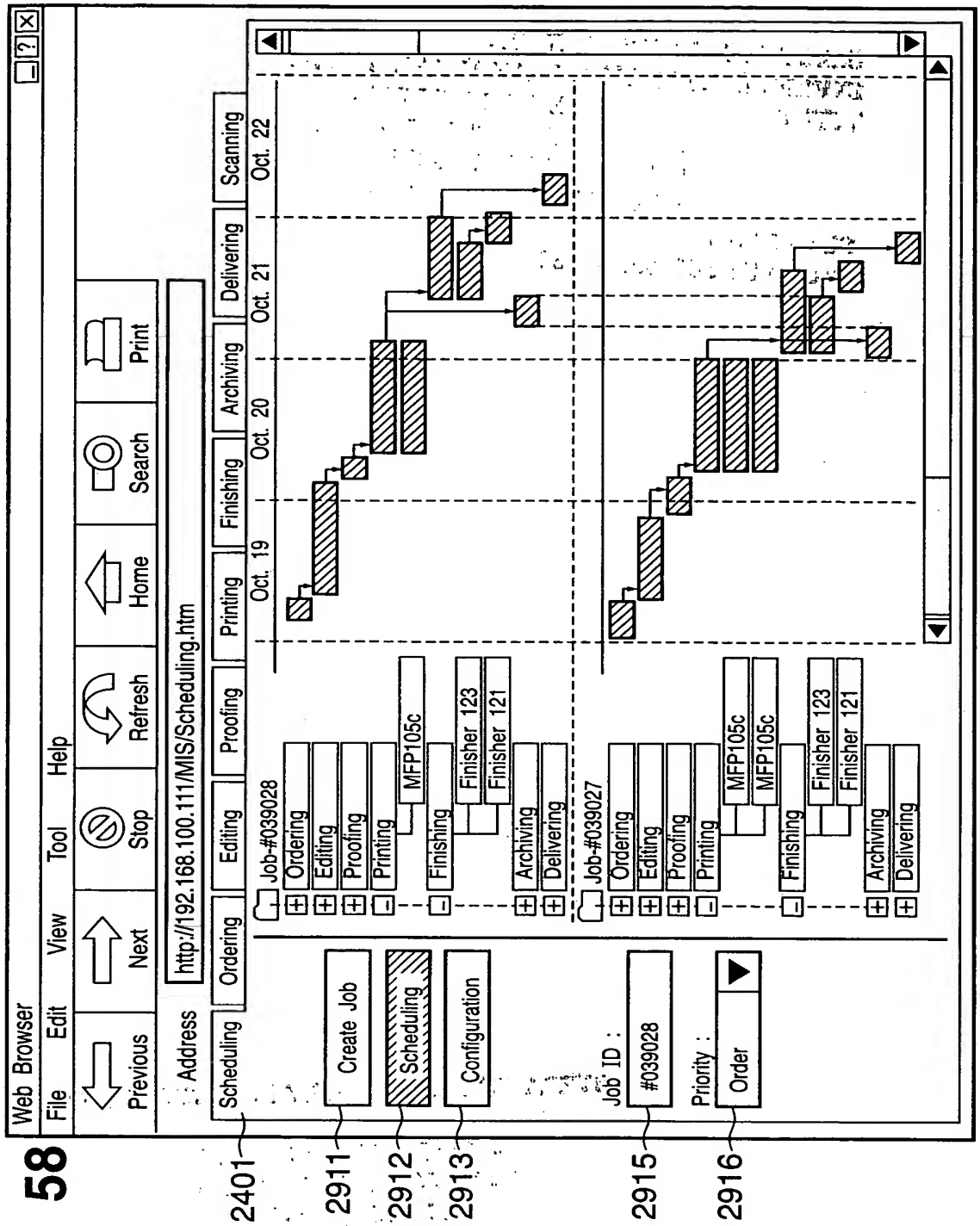

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://192.168.100.111/MIS/Scheduling.htm
Scheduling Ordering Editing Proofing Printing Finishing Archiving Delivering Scanning
Oct. 19 Oct. 20 Oct. 21 Oct. 22
Job-#039028
Ordering
Editing
Proofing
Printing
MFP105c
Finishing
Finisher 123
Finisher 121
Archiving
Delivering
Job-#039027
Create Job
Scheduling
Configuration
Job ID :
#039028
Priority :
Order
2401
2911
2912
2913
2915
2916

FIG. 59

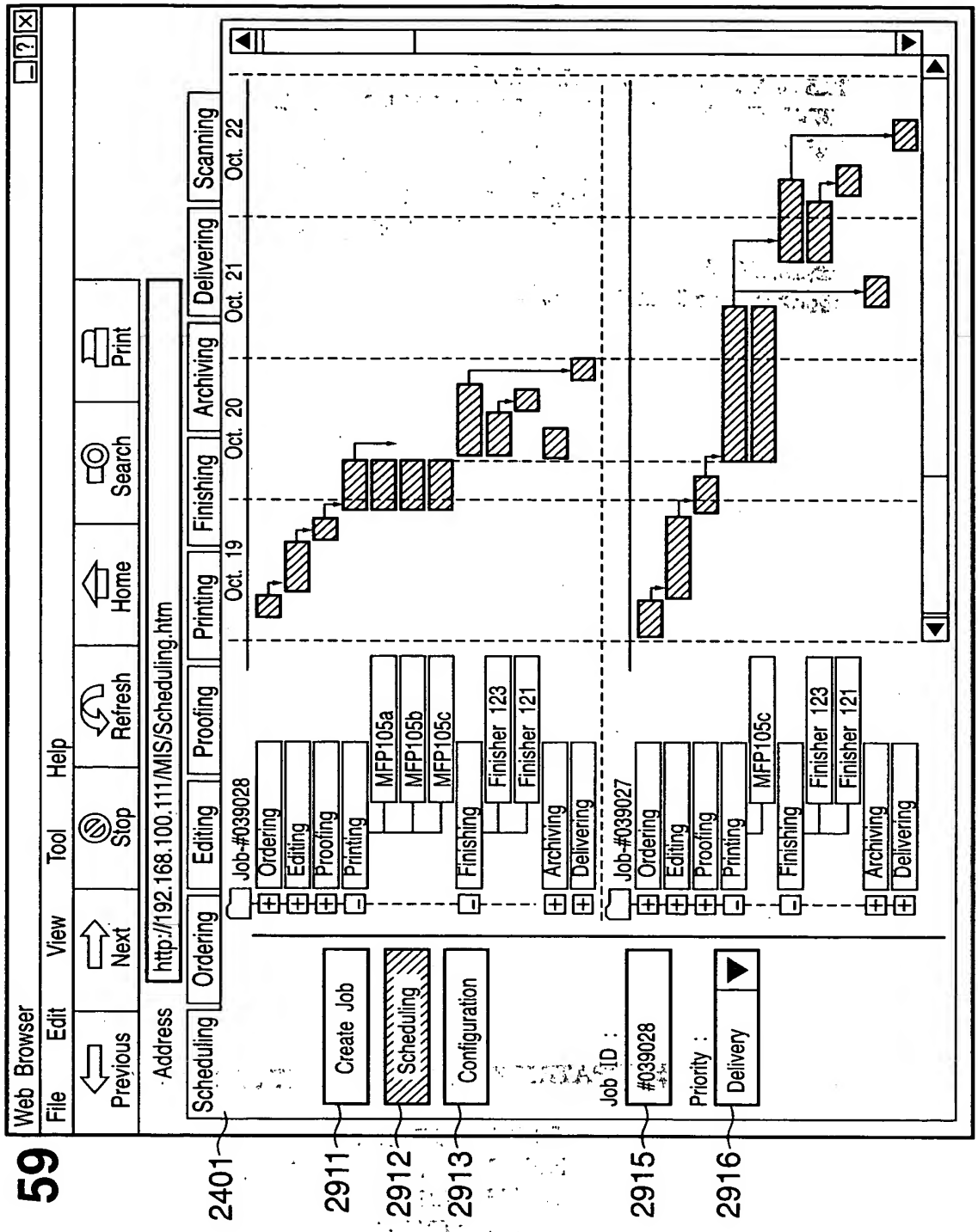

Web Browser
File Edit View Tool Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://192.168.100.111/MIS/Scheduling.htm
Scheduling
Ordering
Editing
Proofing
Printing
Finishing
Archiving
Delivering
Scanning
Oct. 19
Oct. 20
Oct. 21
Oct. 22
Job-#039028
Ordering
Editing
Proofing
Printing
MFP105a
MFP105b
MFP105c
Finishing
Finisher 123
Finisher 121
Archiving
Delivering
Job-#039027
Ordering
Editing
Proofing
Printing
MFP105c
Finishing
Finisher 123
Finisher 121
Archiving
Delivering
Create Job
Scheduling
Configuration
Job ID :
#039028
Priority :
Delivery
2401
2911
2912
2913
2915
2916

FIG. 60

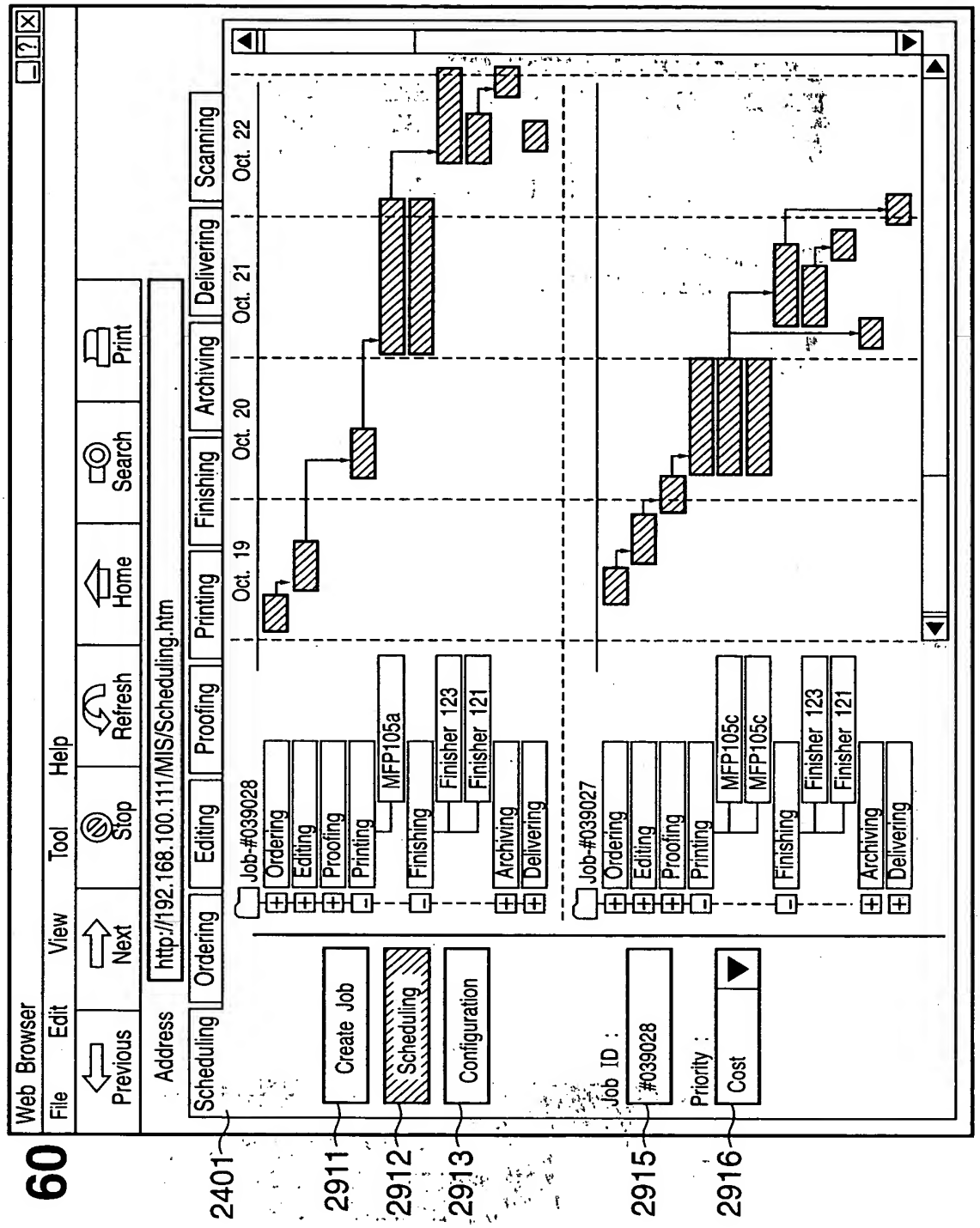

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://192.168.100.111/MIS/Scheduling.htm
Scheduling Ordering Editing Proofing Printing Finishing Archiving Delivering Scanning
Oct. 19 Oct. 20 Oct. 21 Oct. 22
Job-#039028
Ordering
Editing
Proofing
Printing
MFP105a
Finishing
Finisher 123
Finisher 121
Archiving
Delivering
Job-#039027
MFP105c
MFP105c
Create Job
Scheduling
Configuration
Job ID :
#039028
Priority :
Cost
2401
2911
2912
2913
2915
2916

FIG. 61

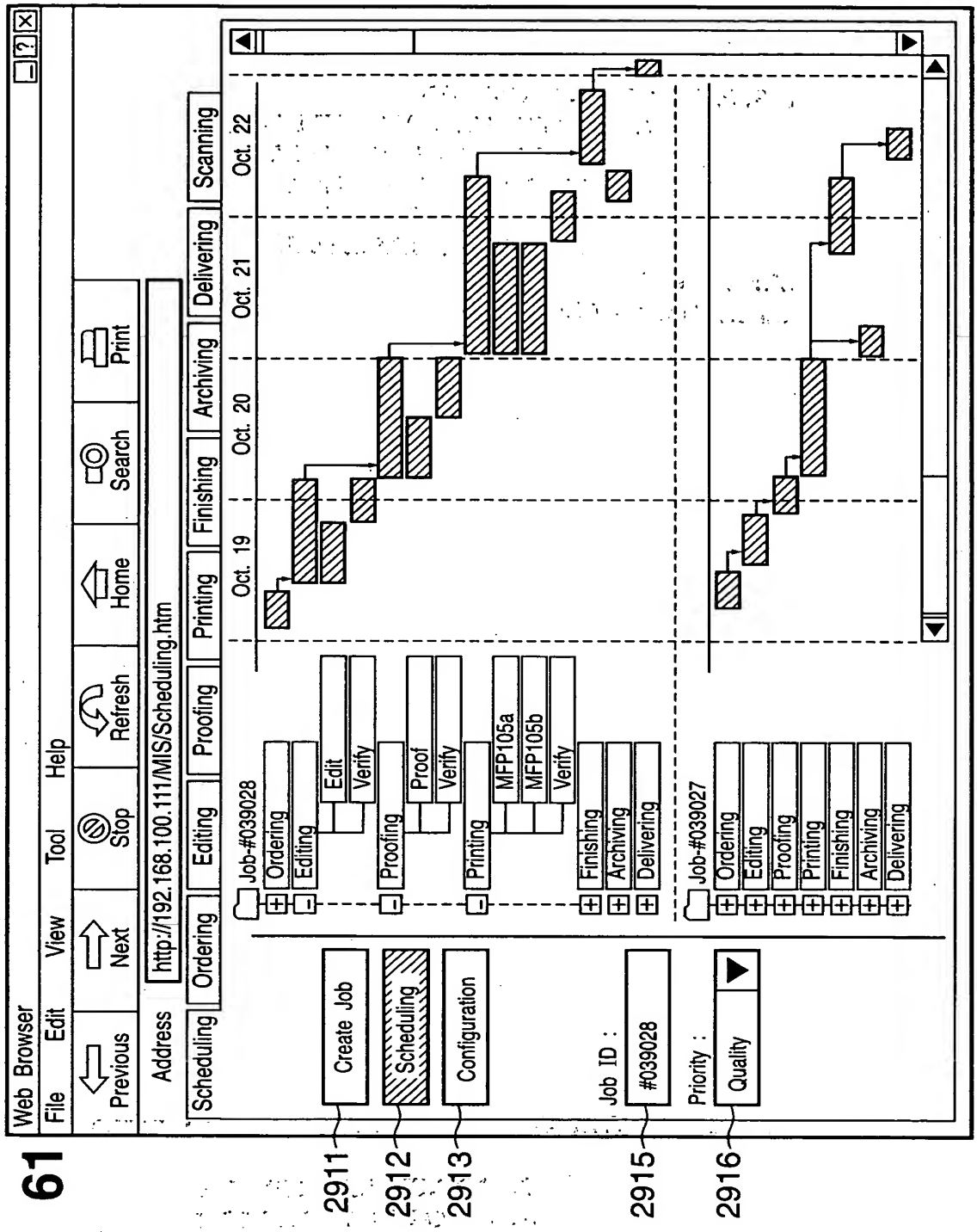

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://192.168.100.111/MIS/Scheduling.htm
Scheduling Ordering Editing Proofing Printing Finishing Archiving Delivering Scanning
Oct. 19 Oct. 20 Oct. 21 Oct. 22
Job-#039028
Ordering Editing Proofing Printing Finishing Archiving Delivering
Edit Verify
Proof Verify
MFP105a MFP105b Verify
Job-#039027
Ordering Editing Proofing Printing Finishing Archiving Delivering
Create Job
Scheduling
Configuration
Job ID :
#039028
Priority :
Quality
2911
2912
2913
2915
2916

FIG. 62

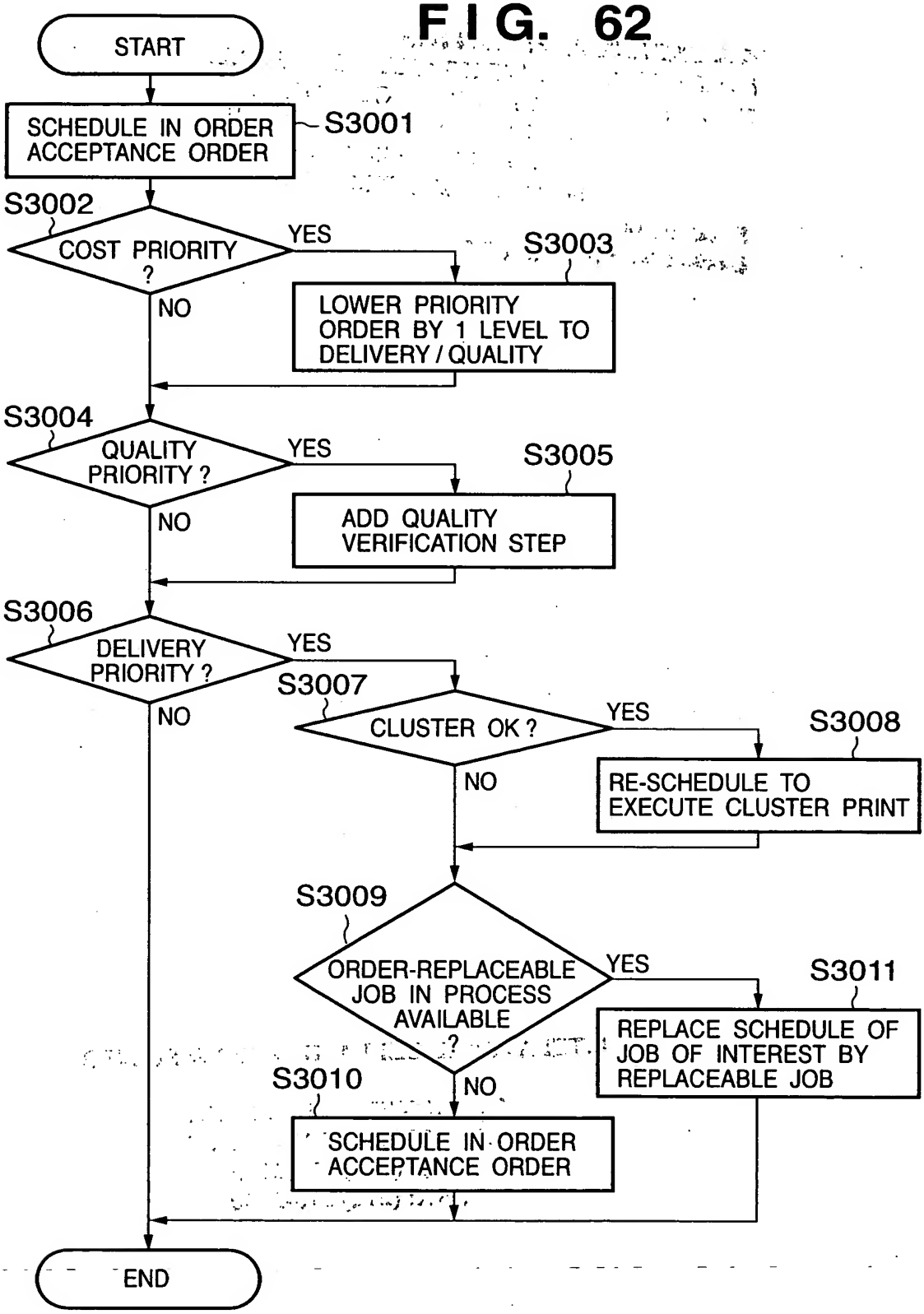

START
SCHEDULE IN ORDER ACCEPTANCE ORDER
S3001
S3002
COST PRIORITY ?
YES
S3003
LOWER PRIORITY ORDER BY 1 LEVEL TO DELIVERY / QUALITY
NO
S3004
QUALITY PRIORITY ?
YES
S3005
ADD QUALITY VERIFICATION STEP
NO
S3006
DELIVERY PRIORITY ?
YES
S3007
CLUSTER OK ?
YES
S3008
RE-SCHEDULE TO EXECUTE CLUSTER PRINT
NO
NO
S3009
ORDER-REPLACEABLE JOB IN PROCESS AVAILABLE ?
YES
S3011
REPLACE SCHEDULE OF JOB OF INTEREST BY REPLACEABLE JOB
NO
S3010
SCHEDULE IN ORDER ACCEPTANCE ORDER
END

FIG. 63

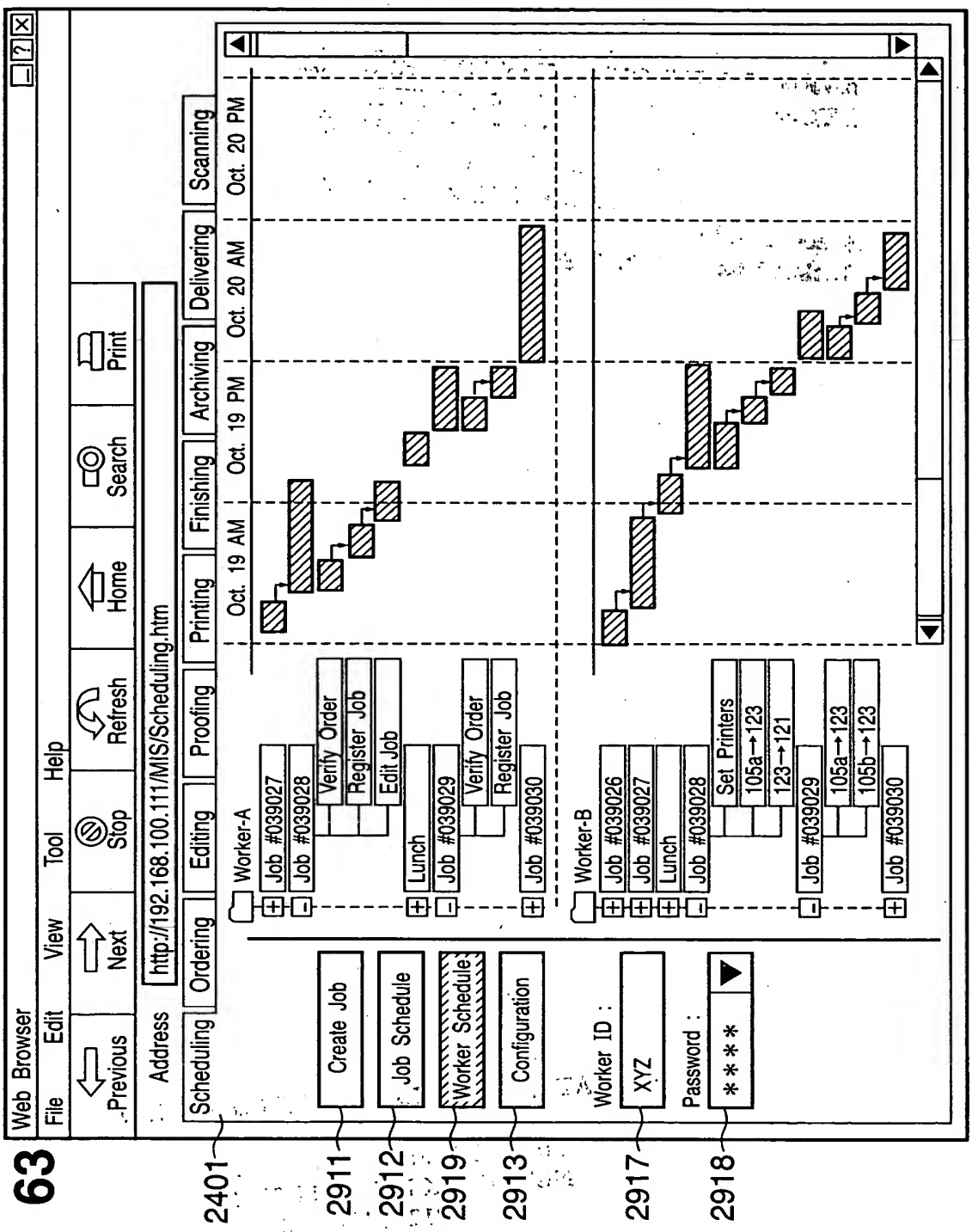

Web Browser
File Edit View Tool Help
Previous
Next
Stop
Refresh
Home
Search
Print
Address
http://192.168.100.111/MIS/Scheduling.htm
Scheduling
Ordering
Editing
Proofing
Printing
Finishing
Archiving
Delivering
Scanning
Oct. 19 AM
Oct. 19 PM
Oct. 20 AM
Oct. 20 PM
Worker-A
Job #039027
Job #039028
Verify Order
Register Job
Edit Job
Lunch
Job #039029
Verify Order
Register Job
Job #039030
Worker-B
Job #039026
Job #039027
Lunch
Job #039028
Set Printers
105a→123
123→121
Job #039029
105a→123
105b→123
Job #039030
Create Job
Job Schedule
Worker Schedule
Configuration
Worker ID :
XYZ
Password :
****
2401
2911
2912
2919
2913
2917
2918

FIG. 64

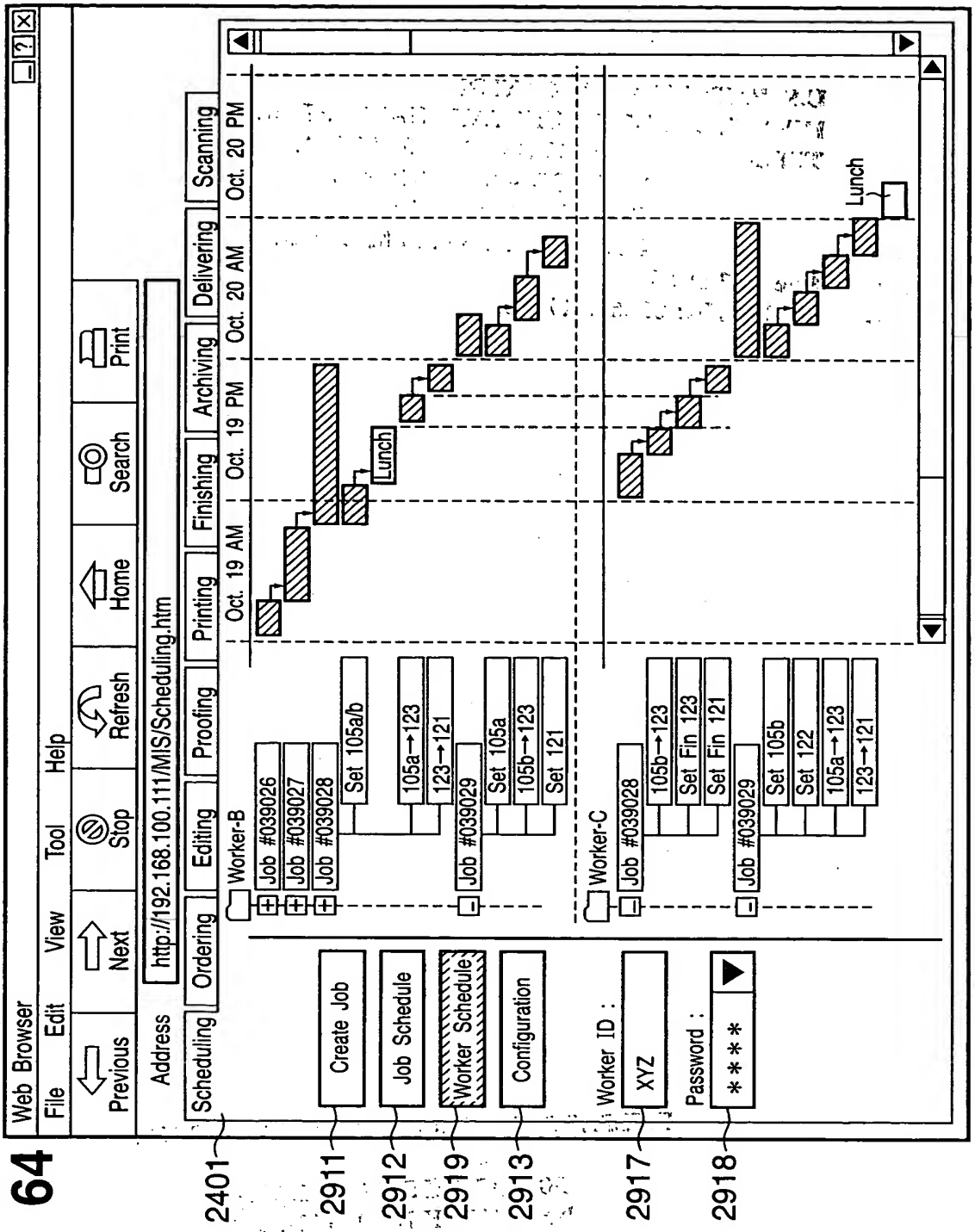

Web Browser
File Edit View Tool Help
Previous Next Stop Refresh Home Search Print
Address http://192.168.100.111/MIS/Scheduling.htm
Scheduling Ordering Editing Proofing Printing Finishing Archiving Delivering Scanning
Oct. 19 AM Oct. 19 PM Oct. 20 AM Oct. 20 PM
Worker-B
Job #039026
Job #039027
Job #039028
Set 105a/b
105a→123
123→121
Job #039029
Set 105a
105b→123
Set 121
Lunch
Worker-C
Job #039028
105b→123
Set Fin 123
Set Fin 121
Job #039029
Set 105b
Set 122
105a→123
123→121
Lunch
Create Job
Job Schedule
Worker Schedule
Configuration
Worker ID :
XYZ
Password :
****
2401
2911
2912
2919
2913
2917
2918

FIG. 65

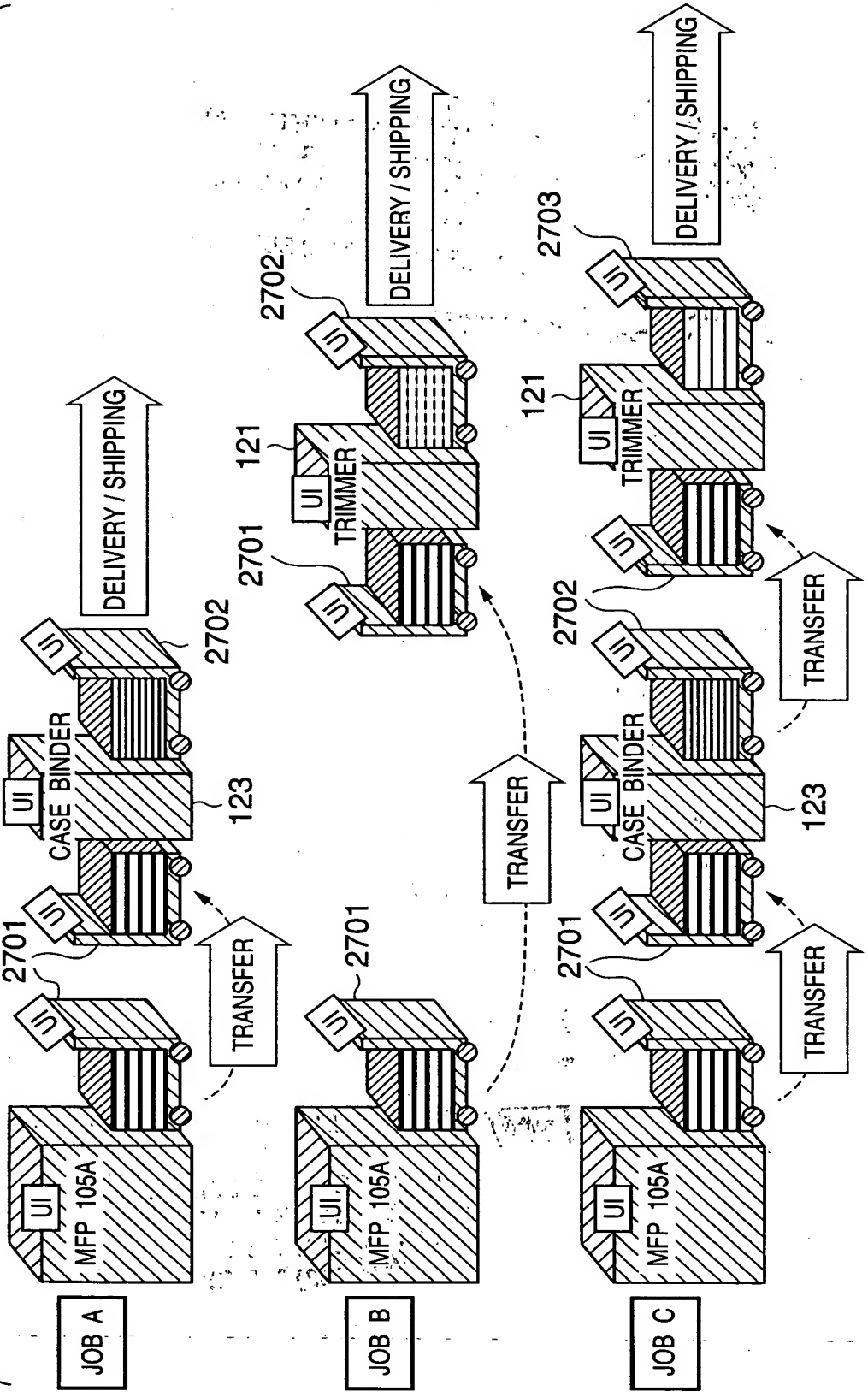

JOB A
JOB B
JOB C
MFP 105A
UI
2701
TRANSFER
CASE BINDER
123
2702
DELIVERY / SHIPPING
TRIMMER
121
2703

FIG. 66

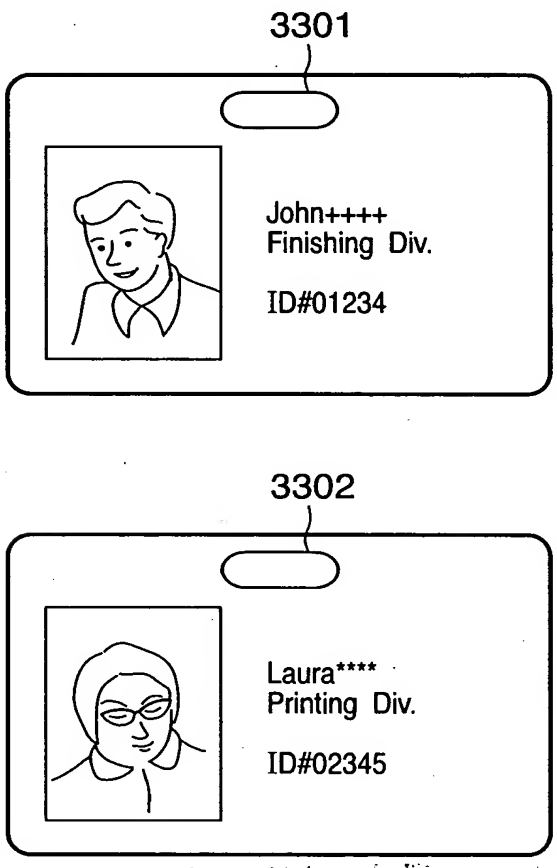

3301
John++++
Finishing Div.
ID#01234
3302
Laura****
Printing Div.
ID#02345

FIG. 67

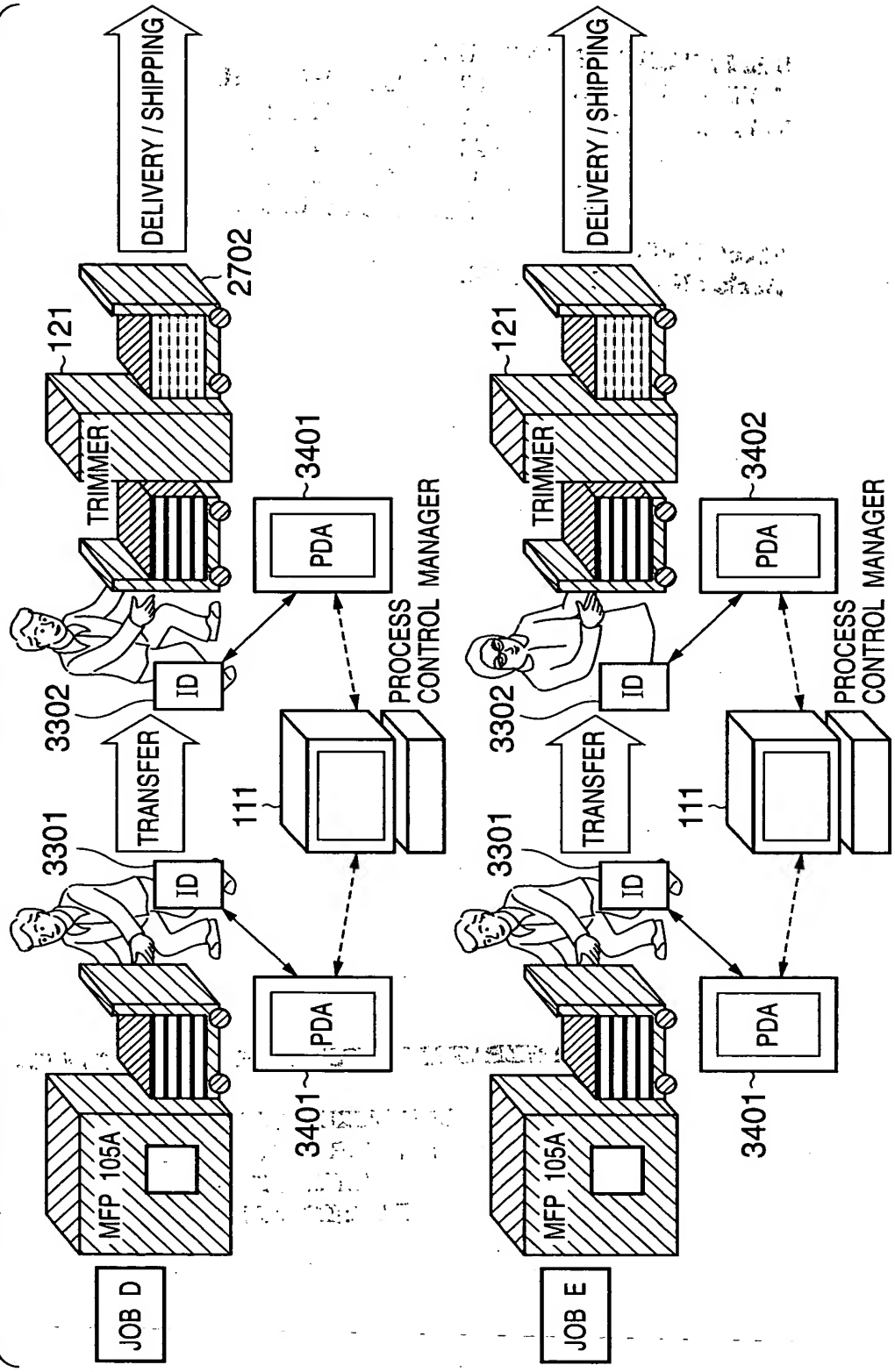

JOB D
JOB E
MFP 105A
TRANSFER
TRIMMER
DELIVERY / SHIPPING
ID
PDA
PROCESS CONTROL MANAGER
111
121
2702
3301
3302
3401
3402

FIG. 68

STORAGE MEDIUM SUCH AS FD / CD-ROM, ETC

DIRECTORY INFORMATION
FIRST DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 2
SECOND DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 6
THIRD DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 38
FOURTH DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 39
FIFTH DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 40
SIXTH DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 41
SEVENTH DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 50
EIGHTH DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 51
NINTH DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 52
10TH DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 53
11TH DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 54
12TH DATA PROCESSING PROGRAM PROGRAM CODE GROUP CORRESPONDING TO STEPS OF FLOW CHART SHOWN IN FIG. 62

MEMORY MAP OF STORAGE MEDIUM